CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 30, 1908.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

(denotes that this work is advertised in Engineering News.)*

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	Place.	See issue.
5- 1	Floating crane,	Quebec, Que.	(S.) 2-20
5- 1	*Reduction works,	Columbus, Ohio	(S.) 3- 5
5- 1	*Concrete seawall,	Key West, Fla.	(P. & S.) 3-26
5- 4	Dredging,	Wilmington, Del.	(S) 4- 9
5- 4	*Water system,	Milan, Mich.	(S) 4-23
5- 7	*Dredging,	Bangor, Me.	(S.) 4- 9
5- 7	*Jetty,	Savannah, Ga.	(S.) 4- 9
5- 7	*Dredging,	Wilmington, Del.	(S) 4- 9
5- 9	*Dock,	Chicago, Ill.	(S) 4-16
5- 9	*Dredging,	Chicago, Ill.	(S) 4-16
5- 9	*Road,	Salem, N. J.	(P. & S.) 4-30
5-11	*Sewers,	Mt Kisco, N. Y.	(S.) 4-30
5-11	Road,	Madison Barracks, N. Y.	(S.) 4-30
5-11	Seawall,	Newport, R. I.	(P. & S.) 4- 9
5-13	*Dredging,	Bridgeport, Conn.	(S.) 4-16
5-13	*Dredging,	etc., Chicago, Ill.	(S.) 4-16
5-16	Lighting system,	New Ft. Lyon, Colo.	(S.) 4- 9
5-20	*Iron fence,	Ft. Ontario, N. Y.	(P. & S.) 4- 9

LIST OF CONTRACTS PENDING.

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5- 1 Air compressor, Sandusky, Ohio. 4-16
5- 1*Power plant, White Plains, N. Y.. 4-16
5- 1 Lighting, Oshawa, Ont..... 4-23
5- 1 Boilers, etc., St. Louis, Mo..... 4-30
5- 1 Power plant, etc., New Orleans, La. 4-30
5- 4 Elec. equipment, New York, N.Y. 4-23
5- 6 Flume, etc., Bobcaygeon, Ont.... 4-23
5- 9*Elec. equipment, Wash., D. C.... 4-23
5-11*Light fixtures, West Point, N. Y. 4-23
5-11 Light plant, Folsom City, Cal..... 4-30
5-11 Electrical equipment, New York. 4-30
5-12 Lighting, Hudson, N. Y..... 4-30
5-12 Wiring, etc., Little Rock, Ark.... 4-30
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5-20*Conduits, etc., Tyler, Tex..... 4-23
6-20 Power-house, etc., New Orleans, La. 4-30

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5- 1 Bridge repair, Mauch Chunk, Pa. 4- 2
5- 1 Bridge repair, Chicago, Ill..... 4-30
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5- 2 Bridge, Cleveland, Ohio..... 4-16
5- 4 Bridge, Gulfport, Miss..... 4-23
5- 4 Bridge, Los Angeles, Cal..... 4-23
5- 4 Bridge, Miramar, Cal..... 4-23
5- 4 Culvert, Geneva, Ohio..... 4-23
5- 4 Abutment, Salem, Ind..... 4-30
5- 4 Bridges, Danville, Ind..... 4-30
5- 4 Bridge, Glen Ellen, Cal..... 4-30
5- 4 Bridges, Delphi, Ind..... 4-30
5- 5 Bridges, Michigan City, Ind..... 4-30
5- 5 Piers, Rockville, Ind..... 4-30
5- 5 Bridges, Greensburg, Ind..... 4-30
5- 5 Bridges, Columbus, Ind..... 4-30
5- 5 Culverts, Warrensburg, Mo..... 4-30
5- 5 Bridge, Gladstone, Man..... 4-30
5- 5 Bridge, Covington, Ind..... 4-23
5- 5 Bridge, San Bernardino, Cal..... 4-23
5- 6 Bridges, Muncie, Ind 4-16
5- 6 Bridge, Cleveland, Ohio..... 4-16
5- 6 Bridges, Arapaho, Okla..... 4-30
5- 7*Bridge floor beams, Bridgeport, Conn. 4-30
5- 7 Bridge work, Logansport, Ind.... 4-30
5- 7 Bridge floor, New York, N. Y.... 4-30
5- 8 Bridges, Washington C. H., Ohio. 4-23
5- 9 Span, Vale, Ore..... 4-23
5-10 Bridge, Virden, Man..... 4- 9
5-11 Bridge, Lane, Idaho 4- 2
5-11 Bridge, Ogden, Utah..... 4-30
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5-12 Bridge repair, Hamilton, Ohio.... 4-30
5-14 Bridge, Rapidan, Va..... 4-30
5-14 Bridge, Savannah, Ga..... 4-23
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5-27*Bridge, Columbus, Ga..... 4-23

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5- 6 Vacuum cleaning plant, Chicago, Ill. 4-30
5- 7 Fire engine house, New York, N. Y. 4-30
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5- 7 Miscell. structures, Toronto, Ont. 4-23
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5- 8 Cathedral, St. Louis, Mo..... 4-30
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5- 9*Interior work, Wash., D. C..... 4-23
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5-11 Post-office, Calais, Me..... 4- 9
5-11 Plans, Prince Albert, Sask..... 4-30
5-11 Armory, Seattle, Wash..... 4-30
5-11 Flooring, New York, N. Y..... 4-30
5-11 Schools, New York, N. Y..... 4-30
5-12*Assay office, New York, N. Y... 4- 9
5-12*House, Nashville, Tenn..... 4-16
5-12 Library, Little Rock, Ark..... 4-23
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5-14*Barrack, Ft. Morgan, Ala..... 4-23
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5-14*Nurses' Home, etc., Albany, N. Y. 4-23
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5-18*Gymnasium, Ft. Morgan, Ala.... 4-23
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5- 4 Reservoir, Tipton, Iowa..... 4-16
5- 4 Ditches, Juneau, Wis..... 4-16
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5-11*Reservoir repair, Bridgeton, N. J. 4-30
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5-12 Water system, Fort Smith, Ark... 4-30
5-12 Well, Alcorn, Miss..... 4-30
5-12*Tunnel, New York, N. Y..... 4-23
5-13 Water mains, New York, N. Y.. 4-30
5-15 Water-works, Hildreth, Neb..... 4-23
5-15 Water-works, Fort Saint Philip, La 4-30
5-18*Water-works plant, Council Bluffs, Iowa 4-16
5-20*Reservoirs, etc., Canon City, Colo. 4-30
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5- 1 Sewer, St. Paul, Minn..... 4-23
5- 1 Sewers, Canton, Ohio..... 4-23
5- 1 Sewer, Red Wing, Minn..... 4-30
5- 2 Sewers, Golden, Colo..... 4-30
5- 2 Storm sewers, Beloit, Wis..... 4-30
5- 2 Sewer, Evansville, Ind..... 4-30
5- 4 Sewers, New Haven, Conn..... 4-30
5- 4 Sewage disposal, White Plains, N. Y. 4-30
5- 4 Sewer, Eagle Grove, Iowa..... 4-30
5- 4 Sewers, Lawrence, Kan..... 4-30
5- 4 Sewer, Greensburg, Pa..... 4-23
5- 4 Sewers, Webb City, Mo..... 4-23
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5- 4 Sewers, Roanoke, Va..... 4-16
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5-12 Sewer, Fort Smith, Ark..... 4-30
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5- 1 Grading, etc., Louisville, Ky..... 4-23
5- 1 Grading, etc., Baltimore, Md..... 4-23
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5- 1 Paving, Huntsville, Ala 4- 2
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5- 1 Grading, Mooresville, N. C..... 4-30
5- 1 Pavement, Landsdowne, Pa..... 4-30
5- 2 Grading, Seattle, Wash..... 4-30
5- 2*Paving, Washington, D. C..... 4-23
5- 4 Gravel roads, Vernon, Ind..... 4-23
5- 4 Road, Tipton, Ind..... 4-16
5- 4 Roads, Albany, N. Y..... 4-16
5- 4 Grading, etc., Asheville, N. C..... 4-30
5- 4*Paving, Indiana, Pa..... 4-30
5- 4 Curb, Hartford, Conn..... 4-30
5- 5 Roads, Bloomfield, Ind..... 4-30
5- 5 Paving, Woodbury, N. J..... 4-30
5- 5 Macadam road, Wilmington, Del. 4-30
5- 5 Road, Paoli, Ind..... 4-30
5- 5 Road, Rockville, Ind..... 4-30
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5- 6 Grading, etc., Muncie, Ind..... 4-16
5- 7*Macadamizing, River Vale, N. J.. 4-16
5- 7*Paving, Fond du Lac, Wis..... 4-23
5- 7 Roads, Brazil, Ind..... 4-30
5- 7 Street improvement, Cincinnati, Ohio 4-30
5- 7 Street improvement, Monessen, Pa. 4-30
5- 7 Asphalt repair, etc., New York, N. Y. 4-30
5- 8 Street improvement, Cincinnati, Ohio 4-30
5- 8 Grading, Paulding, Ohio..... 4-30
5- 9*Road, Salem, N. J..... 4-23
5-11*Macadam, etc., Madison Barracks, N. Y. 4-23
5-11 Curb, etc., Albert Lea, Minn..... 4-30
5-12 Street improvement, Paducah, Ky. 4-30
5-12*Paving, etc., Dunkirk, N. Y..... 4-23
5-14 Granite curbing, Washington, D. C. 4-30
5-15 Pavement, Petrolia, Ont..... 4-30
5-16 Gravel road, Indianapolis, Ind... 4-23
5-26*Pavements, etc., Gulfport, Miss... 4-23
6- 1 Roads, Fort Slocum, N. Y..... 4-23

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5- 4 Ditch, Juneau, Wis 4- 2
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5- 4 Dredging, Wilmington, Del..... 4-16
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5- 5 Ditch, Olivia, Minn. 4-30
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5- 5 Piers, Rockville, Ind..... 4-23
5- 6*Sea wall, etc., Boston, Mass..... 4- 9
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5- 6 Ditch, Crookston, Minn..... 4-30
5- 6 Ditch, Kokomo, Ind..... 4-30
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5- 7*Dredging, Wilmington, Del..... 4- 9
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5- 7*Jetty, Savannah, Ga..... 4- 9
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5- 8 Levee, New Orleans, La..... 4-23
5- 8 Wagon scales, New York, N. Y.. 4-30
5- 9*Dock, dredging, Chicago, Ill..... 4-16
5-10 'Phone system, Virden, Man.... 4- 9
5-11 Sea wall, Newport, R. I..... 4- 9
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5-12 Foundation, etc., Wilmington, Del 4-23
5-12 Fire apparatus, Ft. Wayne, Ind.. 4-30
5-13*Pier, Holland, Mich..... 4-16
5-13*Dredging, Bridgeport, Conn.... 4-16
5-13*Dredging, etc., Chicago, Ill..... 4-16
5-14*Wharf, Portland, Me..... 4-16
5-14 Pile dock, Galveston, Tex..... 4-30
5-15*Pier repairs, Michigan City, Ind. 4-30
5-15*Dredging, Norfolk, Va..... 4-23
5-20*Iron fence, Ft. Ontario, N. Y... 4- 9
5-20*Sea wall, Montgomery, Ala..... 4-23
5-21 Dredging, Boston, Mass..... 4-30
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5-12 Inspector Light & Power, N. Y.. 4- 9
5-13 Electrician, Columbus Barracks, Ohio 4-16

RAILWAYS.

AJO VALLEY R. R.—J. Edwin Jones, Treas., 10 Tremont St., Boston, Mass., informs us that this proposed railroad will be about 125 miles long. It will extend from Theba, Ariz., to the Ajo Copper mines and to the Mexican boundary line. Capital is partly secured. Right-of-way is obtained; survey has been made. Construction contracts will be let in the near future. Michael Meehan, 10 Tremont St., Boston, is Pres.; F. A. Bordwell, Tucson, Ariz., is Ch. Engr. Noted on April 2.

ALTUS, ROSWELL & EL PASO.—Contracts have been let for the first 15 miles of grading on the Altus, Roswell & El Paso R. R., which will be constructed from Altus, Okla., to El Paso, Tex., a distance of 400 miles. J. E. HINES, of Frederick, Okla., was granted the contract for seven miles, and NELS ANDERSON, of Wichita Falls, Tex., the contract for eight miles. Noted last week.

CANADIAN NORTHERN.—Official announcement is made that this company plans to build the following lines in Manitoba this year: Adelpha, Man., westward, ten miles; from a point north of Virden, Man., crossing the Canadian Pacific R. R. tracks, ten miles; from a point on the Rossburn branch through Rapid City, Man., to the Viola Dale District, 25 miles. M. H. McLeod, Winnipeg, Man., is Gen. Mgr.

CHARLESTON, PARKERSBURG & WESTERN.—C. P. Peyton, Ch. Engr., Charleston, W. Va., advises us that this railroad will be built from Charleston to Parkersburg, W. Va., a distance of 50 miles. Surveys are partly made and right-of-way partly secured. Date for letting contracts is uncertain. A. S. Alexander, of Charleston, is Pres. Noted on March 5.

CHICAGO, ROCK ISLAND & PACIFIC.—The line between Shawnee and McAlester, Okla., will be ballasted and 85-pound rails laid. H. G. Clark is Division Engr., Little Rock, Ark.

CHESAPEAKE WESTERN.—W. E. D. Stokes, Ansonia Hotel, New York City, purchased this railway on April 22. It extends from Elkton to North River Gap, Va., via Harrisonburg, 41 miles. Extensions are proposed.

COPPER RIVER & NORTHWESTERN.—Active construction is in progress on the new line from Cordova and Katalla to the interior of Alaska. M. J. HENEY, Colman Bldg., Seattle, Wash., is the contractor for the work, as noted previously. The line is intended for the coal traffic from the Bering Lake district and the copper ore traffic from the Copper River and Chitina Districts. E. C. Hawkins is Vice-Pres. and Ch. Engr., Seattle, Wash.

DENVER, LARAMIE & NORTHWESTERN.—Company plans to begin construction on the first section of its line from Denver to Fort Collins, Colo., about May 1. C. S. Johnson is Pres., and R. H. Dwyer, Ch. Engr., Denver, Colo. As previously noted, surveys have been made and approved for the first section, from Denver to Fort Collins, Colo., 125 miles. The proposed road will extend from Denver to Laramie, Wyo., 450 miles, and eventually to Helena, Mont.; Moscow, Idaho, and Seattle, Wash.

EL RENO, RED RIVER & PACIFIC.—Incorporated in Oklahoma with a capital of $5,000,000 to build a railway from El Reno, Okla., southwesterly through the counties of Caddo, Washita, Kiowa and Jackson. The incorporators are: H. C. Bradford, L. B. Pennell, G. G. Lewis, M. D. Libby and F. E. Gillette, all of El Reno, Okla. The railway will be about 145 miles long. Estimated cost is $30,000 per mile. The Western Construction Co., of El Reno, capital $500,000, has also been chartered by T. J. Mitts, J. T. Bradford and C. F. Adlesperger, of El Reno, to build the railway.

FLORIDA & GEORGIA.—MASON BROS., of Bridgeport, Ala., have been awarded a contract to construct ten miles of railroad for the Florida & Georgia Ry., and 30 miles of trestle for the same line between Douglas and Valdosta, Ga. Work will begin at once. Noted on April 16.

GRAND TRUNK PACIFIC.—Bids for grading for a distance of 100 miles westward from the McLeod River, west of Edmonton, Alta., will be let May 15; and contract for grading 80 miles west from the end of the McLeod River contract will be let on June 22. This

will carry the main line through the Yellowhead Pass in the Rocky Mountains. F. W. Morse, Gen. Mgr., Montreal, Que.

Official announcement is made that contracts have been awarded for all sections of the Grand Trunk Pacific between Moncton and a point known as Waymontachene, 196 miles west of Quebec. The distance from Moncton, the eastern terminus of the new Trans-Continental Railway, to Waymontachene is 656 miles. Between the last named point and Winnipeg 571 miles are under contract, leaving 576 miles yet to be let. The portions of the line now under contract will cost $44,389,293, and the estimated cost of the portion for which contracts have not yet been let is $19,030,173. The estimated cost of the eastern division, which the Dominion Government has undertaken to construct, is $63,409,466. The estimated cost of the prairie section of the Grand Trunk Pacific Railway is $21,872,200, making the cost of the railway from Moncton to the Rocky Mountains $85,271,666. Of the Grand Trunk Pacific prairie section 1,014 miles are under contract, of which 415 are completed.

MEXICO.—The Oil Fields of Mexico Co. will let contract for building a railroad from its works at Furbero, Vera Cruz, to the port of Tuxpan, 50 miles. Contract is also to be let for the construction of an oil pipe line parallel to the proposed railroad. P. N. Furber, Mexico City, is Pres. This company was incorporated in 1903 under laws of Delaware for the purpose of prospecting and developing oil fields located at Furbero, Vera Cruz. It owns about ten square miles in the State of Vera Cruz, Mex. All the oil bearing territory surrounding the company's property, to the extent of over 400 square miles, is held by the company under oil leases for 50 years. The main camp at Furbero is situated 120 miles from the City of Mexico and 50 miles by road from Beristain, the present terminus of the Hidalgo & Northeastern R. R. (part of the system of the National Lines of Mexico). Surveys for the extension of the Hidalgo & Northeastern R. R. to the company's main camp at Furbero, and thence to Tuxpan on the Gulf of Mexico, a further distance of 45 miles, are completed, and arrangements are now being made for the actual construction to be started. Company's New York office is at 43 Exchange Pl.

NEW YORK CENTRAL & HUDSON RIVER—The Public Service Commission, Second District, Albany, N. Y., has granted the application of the New York Central & Hudson River R. R. Co. for permission to issue $4,000,000 of first mortgage 3½ per cent. bonds and $20,000,000 4 per cent debenture bonds. The company presented a statement showing that of the $93,000,000 worth of improvements already authorized there has been expended $49,000,000 up to Dec., 1907. The bonds now authorized to be issued are to provide for obligations incurred for improvements in the past, amounting to $7,120,000, for expenditures this year of $8,547,152, and the balance for future improvements. The improvements to be made during 1908 are: Motive power facilities, $747,650; signal improvements, $462,849; Eastern Division, $524,732; Mohawk Division, $269,174; Western Division, $1,395,215; R. W. & O. Division, $54,734; Pennsylvania Division, $50,000; River division, $282,853; electric division, $18,769; miscellaneous, $9,175; electric zone construction, $3,432,500; additional facilities for motive power and car repairs, $1,299,500.

PACIFIC & SOUTHEASTERN.—This company was incorporated on April 25 at Tacoma, Wash., to build a railroad from Tacoma across the State of Washington. The corporation is capitalized at $15,000,000. Among the incorporators are Gen. Thomas H. Hubbard, of New York; George Crocker, of New York; Charles Lathrop, of California, representing the Stanford Estate; A. D. Shepard, Gen. Mgr. of the Pacific Improvement Co. of California, and Gen. Ashton, of Tacoma.

TERRE HAUTE, ROBINSON, OLNEY & SOUTHWESTERN.—Incorporated in Illinois with a capital stock of $10,000 to build a railroad from a point on the Wabash River on the Indiana-Illinois state line in a general southwesterly direction through the counties of Crawford, Richland, Wayne and Jefferson to Mount Vernon, Ill. The incorporators and first board of directors are: Horace C. Pugh, H. P. Taussig, Norman H. Moss, W. H. Cisne, C. S. Wilson, O. G. Benson, Kenneth Veit, George N. Parker and F. W. Lewis.

TEXAS SHORT LINE.—Announcement is made that J. G. Short, Monterey, Mexico, wishes to correspond with contractors to grade, bridge and build track on 25 miles of the Texas Short Line Railroad, to be completed by Sept. 30, 1908. The entire route proposed is from San Antonio, Tex., to Brownwood, Tex., via Fredericksburg, Llano, Cherokee and San Saba. Mr. Short also wishes to correspond with a civil engineer of not less than 15 years' experience on railroad construction.

TEXAS SOUTHEASTERN.—This company has notified the State Railroad Commission that it will build an extension of its line from Druso, Tex., to either Crockett or a connection with the State Railroad near Palestine. The proposed extension will be about 50 miles long. This road is now built and in operation between Diboll and Druso, a distance of 26 miles. The company has secured authority from the Commission to issue bonds to the amount of $23,000 a mile on the 26 miles of completed road. W. J. Raef is Vice-Pres. and Gen. Mgr., Diboll, Tex.

WESTERN ALLEGHENY.—Bids for the construction of the extension of the Western Allegheny R. R. from Kaylor, Pa., to Reidsburg, will be invited within the next few weeks. All surveys have been completed and the plans are now in the hands of the executive officials. The road will connect with the Franklin & Clearfield branch. The Western Allegheny is now in operation from Dewey, via Kaylor and Queen Junction, to East New Castle, Pa., 43¼ miles. Thos. Liggett, Jr., is Ch. Engr., Diamond Bank Bldg., Pittsburg.

ELECTRIC RAILWAYS.

HOPKINTON, R. I.—At a recent meeting at Ashaway of the Ashaway & Westerly R. R. Co., directors and officers were elected as follows: Dr. A. B. Briggs, William J. Battey, John W. Sweeney, J. Leverett Briggs, John S. Cole, Frank A. Sherman, George N. Burdick, Charles W. Clarke, and Frank Hill. Dr. A. B. Briggs was elected Pres.; John W. Sweeney, Vice-Pres., and Frank Hill, Secy. and Treas. It was voted to have a preliminary survey made at once between Ashaway and Westerly. Capital stock will be $100,000. As noted on Feb. 6, Company's charter allows the acquisition of property by condemnation proceedings, and also permits the corporation to engage in the manufacture and sale of electricity for heat, light and power.

SHREWSBURY, PA.—Right-of-way is being secured by the company that proposes to build an electric railway between this city and York, 14 miles. Survey has been made. D. B. Goodling, Loganville, Pa., is Pres. Noted on Feb. 13.

BROWNSVILLE, PA.—The Brownsville, Masontown & Smithfield St. Ry. Co. has awarded contract to PENNSYLVANIA RAILWAY CONSTRUCTION CO., 432 Frick Bldg., Pittsburg, for building the division running from Brownsville to Masontown. The new system will connect Morgantown, W. Va., with Pittsburg. It traverses Fayette, Greene and Washington Counties, is to be 120 miles long and will give rapid transit to 20 enterprising towns in the coal and coke belt. It is expected that the line will be completed within a year. The new company has an authorized capital stock of $2,500,000, of which $2,000,000 has already been subscribed, and is authorized to issue $3,000,000 first mortgage 30-year 5 per cent. gold bonds. W. J. Sheldon, of McKeesport, is Pres. The company will construct a standard-gage electric railway through the towns of Masontown, West Masontown, East Millsboro, Gates, Lambert, Edeborn, Ronco, New Geneva, Point Marion, Smithfield, Republic, Martin, Riverview, and Uniontown, and will run from some point on the main line by way of Carmichaels, Rices Landing, Jefferson and Waynesburg, in Greene County, and Zollersville, Clarksville, Bealsville and Bentleysville, in Washington County, connecting with the Charleroi line of the Pittsburg Railways Co., for Pittsburg. The power plant will be located at West Masontown, on the Monongahela River, 1½ miles west of Masontown. E. C. McCollough, of Uniontown, is Engr.

ASHEVILLE, N. C.—The CAROLINA CONSTRUCTION CO., of Asheville, has completed survey between Asheville and Hendersonville, 22 miles, for the Asheville & Hendersonville Elec. Ry. Co.'s proposed line, which will run from Asheville to Greenville, via Hendersonville, Flat Rock, Greer, Taylors, etc., 60 miles. F. J. Rowland is Pres., Hendersonville.

STEUBENVILLE, OHIO.—The Steubenville & East Liverpool Ry. & Light Co. has increased the working force engaged in the construction of its railway between Steubenville and Van Port from 200 to 1,200 men. This force will be started at once to complete the double-tracking of the line between Toronto and Steubenville, and it is expected to complete all of the double-tracking work from Steubenville to a connection with the Beaver Valley Traction system at Beaver by July 1. The road is now in operation between Midland, the new steel town, and Steubenville. Van Horn Ely is Pres., and J. C. Rothery is Gen. Mgr., at Steubenville.

NEWARK, OHIO.—The Newark, Martinsburg & Mt. Vernon Elec. Ry. Co. has started surveys for its proposed line to Mt. Vernon via Gambier and Wooster. J. F. Shrontz is Pres. and Frank E. Elliott is Secy., at Martinsburg.

MARIETTA, OHIO.—The Parkersburg, Marietta & Interurban Ry. Co. will build an extension from Lowell to Beverly, Ohio. J. P. Horstman is Ch. Engr., Parkersburg, W. Va.

SOUTH BEND, IND.—The Kalamazoo, Elkhart & South Bend Traction Co. plans to begin construction work next month. The following cities will be connected by this proposed system: South Bend, Mishawaka, Elkhart, Bristol, Nottville, Constantine, Three Rivers, Fishers Lake, Parkville, Vicksburg, Austin, Long Lake and Kalamazoo. It will be a standard-gage line, 73 miles in length. The overhead trolley system is to be installed. Two amusement resorts will be operated by the company, one at Fishers Lake and the other at Long Lake. Noted fully on April 2.

The South Bend & Logansport Railway Co. has been incorporated. The initial capital stock is $10,000. The object of the company is to survey, locate and acquire the right-of-way and construct and operate an electric railway from South Bend to Logansport, a distance of 70 miles. The directors are Allixis Coquillard, Thos. P. Moredock, H. C. Onell and P. J. Hanlihan.

CALUMET, MICH.—The Houghton County St. Ry. Co. and the Houghton County Elec. Light Co. plan improvements to their properties in this section which will result in the expenditure of $1,000,000 this summer. Among the more important work to be done will be a 6-mile extension to Mohawk; erection of new sub-station at Laurium; rebuilding of the overhead electric system at Calumet; new transmission line from Calumet to Mohawk to provide power for mines; enlargement of car barns at Laurium and Hancock, and improvements to coal handling apparatus at Hancock and Houghton. W. H. McGrath is Mgr., Houghton; Stone & Webster, 147 Milk St., Boston, Mass., are Gen. Mgrs. Noted on April 2.

DAVENPORT, IOWA.—Surveys are being made by the Davenport & Manchester Interurban Ry. Co. for its proposed railway which will connect Davenport, Bennett, Monticello and Manchester. It will be about 95 miles long. Geo. T. Baker is Pres.; A. J. Voorhees, Vice-Pres.; J. F. Halligan, Treas.; F. W. Rank, Secy.; W. H. Kimball, Ch. Engr. Noted on April 16.

ST. PAUL, MINN.—The Postmaster-General has signed a fraud order denying the use of the mails to the St. Paul, Minneapolis & Seattle Electric Railroad Co., the Co-operative Construction Co., the Great Northwest Fiscal Agent Co. and the Northern Investment Bureau, and Samuel A. Phillips, David Phillips and William C. Webber, according to the New York "Commercial." As noted on Feb. 6, this "company was incorporated in Minnesota to build an electric railway from St. Paul and Minneapolis, Minn., to the Pacific Coast, with branches extending to Fargo, N. Dak., and Aberdeen, S. Dak. Capital stock, $500,000,000. Incorporators: William C. Webber, Rochester, Minn.; David Phillips, Mazeppa, Minn.; Samuel A. Phillips, James Mossop, St. Paul; Glenn W. Martens, Pierre, S. Dak. The headquarters of the new company will be in the New York Life Bldg., St. Paul."

MINNEAPOLIS, MINN.—F. A. Martin, Gen. Supt. of the Minneapolis, St. Paul, Rochester & Dubuque Elec. Traction Co., Minneapolis, states that specifications and profiles have been completed for this proposed road from Minneapolis and St. Paul, Minn., to Dubuque, Iowa, and that contracts are to be let soon. As noted on Jan. 9, F. G. L. Hunt, Ch. Engr., informed us that this line will connect Minneapolis and St. Paul with Northfield, Owatonna and Rochester, Minn.; Cresco, Decorah and Dubuque, Iowa, 265 miles. Twenty-one miles of grading have been completed. Right-of-way is nearly all obtained. Surveys are completed. M. W. Savage, Minneapolis, is Pres. Noted on Oct. 10 and Oct. 31.

LITTLE ROCK, ARK.—The Little Rock & Hot Springs Elec. Ry. Co. will let contracts soon for building its proposed line from Little Rock to Hot Springs, 56 miles long. Company plans to build its own power station. The capital of the company is $2,000,000. Officers are as follows: C. J. Kramer, Pres.; L. Garrett, Vice-Pres. and Gen. Mgr.; J. C. Marshall, Secy.; George W. Rogers, Treas.; J. F. Russ, Supt.; P M. Pierce, Elec Engr. Noted on Dec. 19.

Application for a charter will be made by the Little Rock & Pine Bluff Traction Co. Right-of-way is being secured. The officers are: Pres., W. F. Campbell of Redfield, Ark.; Vice-Pres., Ben. F. Foreman of Texarkana, Ark.; Secy. and Treas., Mrs. F. A. Gibson, Redfield, Ark. Directors: J. A. Woodson, of Little Rock; C. W. Turner, of Casa, Ill., and J. W. Corber, of Pine Bluff, Ark.

OKLAHOMA CITY, OKLA.—We are officially advised that the Canadian Valley Ry. Co. will build an electric railway between Fort Supply and Oklahoma City, 150 miles. Citizens along the proposed route are furnishing capital. Surveys have not been made or right-of-way obtained yet. Thomas H. Martin is Pres.; E. O. McCune is Secy., both at Mutual, Okla. This company was incorporated recently in Oklahoma with capital of $2,000,000.

WALLA WALLA, WASH.—The Washington & Oregon Traction Co. has been granted a franchise for an electric railway along the east side of the city to the Washington Cemetery. The line will be about 15 miles in length. It may be extended to Pendleton next year. Noted on March 5.

The Columbia & Walla Walla Traction Co. will build an electric railway 80 miles long which will connect Dayton, Walla Walla, Waitsburg, Huntsville, Milton and Wallula. The power station, it is stated, will be located at the Tucannon River. Company has an authorized capital stock of $3,000,000. M. C. Moore, Walla Walla, is Pres.; M. C. Hanger, Dayton, Vice-Pres.; C. C. Gose, Walla Walla, Secy.; F. C. Pain, Walla Walla, Treas.; J. H. Morrow, Waitsburg, Gen. Mgr.; J. F. Bartlett, Waitsburg, Ch. Engr.

NORTH YAKIMA, WASH.—The Yakima Valley Transportation Co. plans to build from North Yakima to Sunnyside instead of Zilla. Right-of-way is being secured. A. J. Splawn is Pres.; Geo. S. Rankin is Mgr., at North Yakima. Noted on April 16.

LIGHT AND POWER PLANTS.

MIDDLETOWN, CONN.—The Middletown Electric Light Co. has under consideration the question of constructing a plant in which steam turbines will be used. L. C. Whitney, Middletown, is Mgr.

NEW YORK, N. Y.—In the Naval Appropriation Bill recently passed by Congress improvements are planned for the Brooklyn Navy Yard, among which are included $40,000 for extension of electric light plant, $25,000 for extension to underground conduits, $115,000 for completing heating plant and $12,000 for telephone system. R. C. Hollyday is Ch. of Bureau of Yards and Docks, Washington, D. C.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 11, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing electric equipment in addition to and alterations in Public School No. 24, on the southwest side of Beaver St., between Arion Pl. and Belvidere St., Boro. of Brooklyn.

Bids were received as follows on April 27 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing electric equipment in new Public School No. 155, on the corner of Herkimer St. and Eastern Parkway, Boro. of Brooklyn: Ries & O'Donovan, 1123 Broadway, $10,210; Peet & Powers, 45 West 34th St., $10,837; Cowden & De Young, 237 Broadway, $10,300; T. Frederick Jackson, Inc., 592 Columbus Ave., $9,900; J. A. Boogan, $9,430; Commercial Construction Co., 114 East 28th St., $10,320; Griffen & Co., 116 Nassau St., $10,647.

HUDSON, N. Y.—Bids are asked until 5 p. m., May 12, by the Common Council for lighting the streets and City Hall building at Hudson for a term of three years and for a term of five years, commencing Sept. 15, 1908.

NORRISTOWN, PA.—It is the intention of the City Council to extend the municipal electric light plant. Harry P. Hiltner is Clerk of Council. W. G. Risdon is Supt.

ST. GEORGES, DEL.—John D. Thompson, Arch., Wilmington, Del., is preparing plans for a power station to be built at St. Georges for the National Construction Co., Smyrna, Del.

SABILLASVILLE, MD.—[illegible] & Nolting, Archs., Keyser Bldg., Baltimore, have completed plans for a 3-story power-house and wood shacks, to be erected at Sabillasville, for the Maryland Tuberculosis Sanitarian Association.

WASHINGTON, D. C.—The Washington Railway & Electric Co. intends to increase the output of its power station and will install a 900-KW. turbine, 25-cycle KW. frequency set and a 1,000-KW. railway rotary converter. The company will award a contract for the construction of about 3,100 ft. of new track, car barn, car. H. W. Fuller is Gen. M[illegible] a suburban

CLARKSBURG, W. VA.—The Fairmont & Clarksburg Traction Co. will build a power plant at Clarksburg instead of rebuilding the one recently burned at A[illegible]ton. S. B. Miller, Fairmont, W. Va., is [illegible] Engr.

ELM GROVE, W. VA.—The City & Elm Grove Ry. Co. will expend about $35,000, it is said, in doubling capacity of its power-house by installing steam turbines, which will utilize exhaust from four high-pressure engines at present furnishing steam power for electric machinery. Other improvements will be made. The expenditure will be between $60,000 and $75,000.

COLUMBIA, S. C.—The Columbia Electric Street Railway, Light & Power Co., will install a 1,000-KW. generator and other electrical machinery in its water-power plant. Edwin W. Robertson is Pres.; Alfred Wallace is Supt., Columbia.

BIRMINGHAM, ALA.—The Birmingham "Ledger" states that it is proposed to construct a power dam on the Big Warrior River, ten miles above Sipsey Forks in Walker County. From this dam the city may be supplied with water and lighting. J. C. Murray is City Clerk.

FOLEY, ALA.—The Consumers' Service Corporation contemplates installing an electric-light and power plant and municipal water-works. John Walker, Magnolia Springs, Ala., is interested.

MONTEVALLO, ALA.—Bids are asked by the President of the Alabama Girls' Industrial School until noon, May 8, for erecting a brick power plant and boiler room building. William E. Spink, Title Guarantee Bldg., Birmingham, is Arch.

HATTIESBURG, MISS.—The Hattiesburg Traction Co. has issued bonds for various improvements, including construction of a power plant. C. Z. Stephens, Hattiesburg, is Gen. Mgr.

HOUMA, LA.—J. Posey Campbell, Mayor, Houma, advises us that it is expected to start work on the proposed power plant for this city soon.

JENNINGS, LA.—Frank E. Bliss, of Jennings, and George S. Forrest, Iowa Falls, Iowa, have secured a franchise to build and operate gas works, and will erect a plant costing between $30,000 and $50,000, using crude oil and coke in producing gas to provide light, fuel and power.

NEW ORLEANS, LA.—Bids are asked until May 20 by the Vice-President of the Board Solvent for construction and equipment of a steam power-house, boiler plant, etc., for the Charity Hospital, in accordance with plans and specifications on file with John Ponder, Ch. Engr. of the hospital. The plans call for a 600-HP. plan, the cost of which is estimated at $52,000. Edwin Marks is Secy. and Treas. Noted on April 23.

Bids are asked at the office of the Sewerage and Water Board until June 30 for furnishing and installing the following machinery: Two 100-KW., 250-volt, direct-current generators; two 75-HP. 250-volt motors; one 2,500,000-gallon turbine pump, to work against a 125-ft. head, direct connected to an electric motor; one 1,000,000-gallon triplex pump, to work against a 125-ft. head, geared to an electric motor; one 2,000,000-gallon centrifugal pump unit, to work against a 20-ft. head; two 4,000,000-gallon centrifugal pump units, to work against a 20-ft. head; two 5-HP. 250-volt motors; one surface condenser, capable of condensing 6,500 lbs. of steam per hour, together with air pump. Also all exhaust and water piping, valves, wiring, switchboard, lamps and other appurtenances, completely installed. Specifications with blank form of proposals may be obtained at the office of the Board, 602 Carondelet St. Plans will be furnished only upon personal application. F. S. Shields is Secy. of the Bd.; A. B. Wood is Des. Engr. Noted on April 16.

LOUISVILE, KY.—Board of Public Works will sell at public auction on May 12, a franchise for the sale of electricity for lighting and power. Roger G. McGrath is Secy. Bd. Pub. Wks.

CLEVELAND, OHIO.—The lowest bid opened on April 14 by the Board of Public Service for a 1,000-KW. unit for the South Brooklyn municipal lighting plant was submitted by the Allis-Chalmers Co., Milwaukee, Wis., for $29,690.

SPENCER, IND.—The Reliance Engineering Co., of Columbus, Ohio, will have charge of the construction of electric light plant and water-works system for Spencer. The cost of the plants is estimated at $35,000. The lighting plant will have an output of 200 KW.

FORT WAYNE, IND.—The Fort Wayne & Wabash Valley Traction Co. will construct a concrete dam, it is stated, on the St. Joseph River, at Robison Park. C. D. Emmons, Fort Wayne, is Gen. Mgr.

LANSING, MICH.—The Michigan Power Co. has plans for a steam electric plant of 2,350 HP., to be built on the banks of the Grand River, near the foot of Ottawa St. The building will have four stories, steel and reinforced concrete. Estimated cost of building and equipment, $150,000. W. H. Zimmerman is Mgr.

OSHKOSH, WIS.—The Little Wolf River Power Co. has been incorporated with a capital of $250,000. The company owns four mills on the Little Wolf River in Waupaca County and will connect the water power for an electric plant and will supply Oshkosh with power. Leander Choate is Pres.; Casper Faust, V.-Pres., and Frank H. Josslyn, Secy.

WAUKESHA, WIS.—It is the intention of the Waukesha Gas & Electric Co. to erect a larger plant than the present one and to fit it with new machinery. This plant will be designed to furnish heat to certain parts of the city through tunnels. H. M. Buck, Waukesha, is Mgr.

BRAINERD, MINN.—This city will issue $150,000 of bonds soon for constructing an electric power plant and water-works. H. J. Spencer is City Clerk. Plans have been prepared by O. Claussen, St. Paul, Minn.

FERGUS FALLS, MINN.—It is stated that a transmission line, 28 miles long, is to be constructed between Fergus Falls and Wahpeton, N. Dak., for the Otter Tail Power Co. Edward P. Burch is Consult. Engr., Guarantee Loan Bldg., Minneapolis, Minn.

KIOWA, KAN.—We are officially advised that plans have been prepared by Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., for an electric light plant to cost $12,000. An election will be held on April 30 to vote on the proposition to issue bonds for construction of these plants. See Water Supply—Irrigation.

ST. LOUIS, MO.—Bids are asked until May 1 by the Board of Public Improvement for furnishing designs, plans, tools, labor and material, building foundations, transporting and erecting in Boiler House No. 2, Bissell's Point, four 350-HP. boilers, with Roney mechanical stokers, Foster superheaters, setting valves and other necessary fittings and breeching to smoke flue of present stack. Andrew J. O'Reilly is Pres.

GRAVETTE, ARK.—A franchise has been granted to the Sulphur Springs Water, Light & Motive Power Co., of Sulphur Springs, Ark., to install a lighting system here.

LITTLE ROCK, ARK.—Bids are asked until May 12 by S. W. Reyburn, Secy. of the Little Rock Public Library Board, for wiring, heating and plumbing the library to be built here. Edward L. Tilton, 32 Broadway, New York, N. Y., is Arch.; Charles L. Thompson, Arkansas Bldg., Little Rock, is Superv. Arch.

OKLAHOMA CITY, OKLA.—The Oklahoma Gas & Electric Co. will expend about $250,000 in laying 50 miles of gas mains, and in other improvements. F. H. Tidnam, Oklahoma City, is Mgr.

PORTLAND, ORE.—It is stated that the Portland Railway, Light & Power Co. is having plans prepared for a sub-station to be erected on Northern Hill. B. S. Jesselyn is Pres.

BANNING, CAL.—We are officially advised that the Banning Gas & Lighting Co. has obtained a franchise to operate a gas plant in the streets of Banning and Beaumont, Riverside County. A. B. Pilch is County Clerk, Riverdale, Cal.

PLACERVILLE, CAL.—J. W. White, of San Francisco, has been engaged to make estimates for constructing a municipal electric light and power plant in Placerville.

FOLSOM CITY, CAL.—Bids are asked until 2 p. m., May 11, by the State Board of Prison Directors, Ferry Bldg., San Francisco, for constructing an electric light plant at Folsom Prison.

SAN FRANCISCO, CAL.—The estimate of expenses for the next fiscal year prepared by the Department of Electricity for the Board of Supervisors is $275,450, which includes restoration of the overhead and underground fire and police-alarm systems. Marsden Manson is City Engr.

PACIFIC GROVE, CAL.—BENNISON & BRUNTON, Los Angeles, Cal., have contract to construct a gas plant here for the Pacific Grove Heat, Gas & Power Co. F. H. Hess is Engr. The directors are H. E. Hales, S. J. Evans and Willis Smith, all of Los Angeles.

WINNIPEG, MAN., CAN.—The Civic Board of Control has decided to notify all companies having wires on the streets of the center section of the city of Winnipeg that the wires must be placed underground within a year from date. A. N. Ruttan is City Engr.

SHERBROOKE, QUE.—The Sherbrooke Power, Light & Heat Co., Sherbrooke, which is operating a plant with two 500-KW., 60-cycle generators, direct connected to water wheels of 875-HP. capacity each, expects to install another unit of the same kind and size. A. Sangster is Supt.

CALGARY, ALTA.—The Power & Light Committee is considering the question of installing an additional engine, which will double the output of the municipal power plant. H. Creaves is Chn. of the Com.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

SALEM, MASS.—The County Commissioners opened bids on April 22 for the construction of the approach to the Danvers River bridge on the Salem side, as follows: Burnham & Poor, North Andover, Mass., $17,535; Ellis & Buzzell Co., Boston, Mass., $19,512; J. J. Welch & Co., Salem, $17,552; McHale & Perkins, Boston, $17,733; D. LINEHAN & SON (awarded contract), Beverly, Mass., $16,827; Cavanaugh & Co., Boston, Mass., $23,122; Hamlin & Ryan, Salem, $18,992.

*BRIDGEPORT, CONN.—Bids are asked until noon, May 7, by the city, for erecting new floor beams on the Stratford Ave. drawbridge.

HARTFORD, CONN.—The Director of Public Works on April 17 received from W. H. Keith, 116 Nassau St., New York, N. Y., plans and specifications for the reconstruction of the lower part of the lower bridge on Stratford Ave.

NEW YORK, N. Y.—Bids are asked until 2 p. m., May 7, by J. W. Stevenson, Comr. of Bridges, for the construction of a bridge floor at the Metropolitan Ave. bridge, in the Borough of Brooklyn.

NEW YORK, N. Y.—We are officially advised that the ABBOTT-GAMBLE CO., 32 Broadway, has been awarded the contract by L. V. Morris, Ch. Engr., Bay Ridge Improvement of the Long Island R. R., 1964 Broadway, Brooklyn, N. Y., for the construction of the reinforced concrete floors on bridges J, K, L, Locust and Chestnut on the Brighton Beach extension.

NEW YORK, N. Y.—The following are the bids opened on April 16 by J. W. Stevenson, Comr. of Bridges, for constructing roadway pavement and inside trolley tracks of the Blackwell's Island Bridge over the East River, between Manhattan and Queens Boroughs: J. H. Gray & Co., $234,010; Charles Meads, 299 Broadway, $185,100; Williams Engineering & Construction Co., 21 Park Row, $191,175; Snare & Triest Co., 143 Liberty St., $184,760; Cooper & Evans, 220 Broadway, $183,000; E. Huhne, 247 Fourth Ave., $192,115; North Eastern Construction Co., $225 Fourth Ave., $17,952; Maryland Steel Co., 71 Broadway, $182,970.

ALBANY, N. Y.—The United Traction Co., Albany, proposes to erect an iron bridge across the Erie Canal in place of the existing wooden bridge.

PHILADELPHIA, PA.—The Lehigh & New England R. R. has awarded contracts to the PENNSYLVANIA STEEL CO., Girard Trust Block, Philadelphia, for the construction and erection of two new steel bridges, one over the Delaware River at Portland at $100,000, and the other over the Paulius Kill, near Hainesburg Junction, N. J., at $10,000. The Delaware River bridge has river spans 925 ft. in length with a viaduct approach of 934 ft., or a total length of 1,859 ft., and the Paulius Kill bridge will be 155 ft. long. W. J. Young, Bethlehem, Pa., is Ch. Engr.

*PHILADELPHIA, PA.—The following bids were opened on April 22 by the Department of Public Works for the construction of the following bridges: Bridge on the line of Hunting Park, over the Philadelphia, Newtown & New York R. R., John Goll & Co., 1539 Filbert St., Philadelphia, $59,600; time, five months; Standard Bridge Co., New York Life Building, Omaha, Neb., $54,800; six months; T. F. Riley, $37,535; six months; W. W. Lindsay & Co., Harrison Block, Philadelphia, $49,900; eight months; Cramp & Co., Commonwealth Block, Philadelphia, $40,965; five months; Bennis Construction Co., Torresdale, Pa., $64,000; six months; Blackstaff Engineering Co., $49,900; one year; Schellinger Bros. & Co., $49,355, five months; Richard Walsh, 25th and Sedgley Sts., Philadelphia, $55,999, ten months; F. J. Boaz, 14 South Broad St., Philadelphia, $49,600, ten months; David Peoples, Land Title Bldg., Philadelphia, $53,000, eight months; Cumming Structural Co., $49,948, four months; McNichol Paving & Construction Co., $39,815, six months; John McMenamy, Harrison Block, Philadelphia, $65,000, one year; McGaw & Gray, Pennsylvania Bldg., Philadelphia, Pa., $45,700, six months.

On the line of Ontario St., under the Richmond branch of the Philadelphia & Reading Ry.: Thomas F. Riley, $33,714, six months; Bennis Construction Co., $39,900, six months; W. W. Lindsay & Co., $41,900, five months; Sax & Abbott Construction Co., 1328 Chestnut St., Philadelphia, $43,544, seven months; Stroebel Steel Construction Co., Monadnock Block, Chicago, Ill., $39,900, nine months; Filbert Paving & Construction Co., Pennsylvania Bldg., Philadelphia, $34,886, eight months; Blackstaff Engineering Co., $48,000, ten months, Owego Bridge Co., Owego, N. Y., $37,400, eight months; Etter Erecting Co., $39,700, five months; Richard Walsh, $39,995, seven months.

On the line of Rockland St., over the North Pennsylvania R. R.: John McMenamy, $47,000, one year; David Peoples, $31,000, eight months; W. W. Lindsay Co., $28,900, six months; Cramp & Co., $29,950; four months; McNichol Paving & Construction Co., $24,741, six months; Schellinger Bros. & Co., $27,852, five months; Bennis Construction Co., $39,000, six months; Blackstaff Engineering Co., $24,000, ten months; John Goll & Co., $32,500, five months; Thomas F. Riley, $29,987, six months; McGaw & Gray, $23,400, six months; Standard Construction Co., $39,325, four months; F. J. Boaz, $26,960, ten months; Field, Barker & Underwood, $32,850, eight months; Carey & Reed, $35,750, nine months.

On the line of 29th St. over the connection railroads: W. W. Lindsay & Co., $35,900, six months; Bennis Construction Co., $47,000, six months; Blackstaff Engineering Co., $37,000, 15 months; Etter Erecting Co., $41,300, six months; Thomas F. Riley, $34,993, six months; Sax & Abbott Construction Co., $38,500, six months; Schoebel Steel Construction Co., $47,600, ten months; David Peoples, $39,400, ten months; Filbert Paving & Construction Co., $32,159, eight months; Owego Bridge Co., $33,170, eight months; McGaw & Gray, 34,000, six months; John Goll & Co., $40,800, five months.

On the line of Sedgwick Ave., over the Philadelphia & Reading Ry.: Owego Bridge Co., $28,134, six months; Blackstaff Engineering Co., $31,950, ten months; Filbert Paving & Construction Co., $36,770, six months; Sax & Abbott Construction Co., $31,500, six months; Field, Barker & Underwood, $32,475, seven months; Richard Walsh, $28,275, five months; Thomas F. Riley, $26,561, six months; Stroebel Steel Construction Co., $33,000, nine months; Bennis Construction Co., $32,500, four months; W. W. Lindsay & Co., $32,900, four months.

Substructure of the Passyunk Ave. bridge, over the Schuylkill River, seven concrete piers, two on pneumatic caisson foundations, and five on wooden pile foundations: Filbert Paving & Construction Co., $120,000, $33,000 and $33,000, respectively; Blackstaff Engineering Co., $250,000, $28,000 and $40,000; the Foundation Co., 115 Broadway, New York, $131,870, $19,435 and $31,035; the Bryson-Gamble Co., $120,000, $18,500 and $30,800; David Peoples, $127,000, $25,000 and $37,000; Hoffman Engineering Co., Pennsylvania Bldg., Philadelphia, $139,500, $20,260 and $30,236; Pneumatic Caisson Co., $142,000, $18,200 and $27,000. George R. Stearns is Dir. Pub. Wks.

BIRDSBORO, PA.—The following bids have been opened by the County Commissioners for repairing the Birdsboro bridge, requiring 13,800 ft. of white-oak boards: CHARLES J. SMITH, $29.50 per M. (awarded contract); Paul L. Lengel, $29.75 per M.; Charles Moore, $35 per M.

C. O. ESHLEMAN has been awarded the contract for repairing the Hay Creek bridge at Birdsboro.

BUTLER, PA.—The Pittsburg & Butler Street Ry., the Bessemer & Lake Erie R. R. and the Baltimore & Ohio R. R. companies will erect a steel viaduct about 1,200 ft. in length from South McKean St. to Center Ave., crossing both of the steam roads. It will be about 40 ft. wide and will cost $100,000. Hudson F. Layton, Fourth Ave., Pittsburg, Pa., is Ch. Engr., Pittsburg & Butler Street Railway Co., and H. T. Porter, Greenville, Pa., is Ch. Engr., Bessemer & Lake Erie R. R. Co.

EMERALD, PA.—The County Commissioners on April 20 awarded the contract for the erection of the new county bridge across the Lehigh Valley tracks at Emerald, to HORN & NEFF, of Slatington, Pa., at $6,300. The other bidders were: Nelson & Meredith Co., Chambersburg, Pa., $8,739; George W. Shoemaker & Co., $6,640; Ackerman & Co., Allentown, Pa., $6,370; Owego Bridge Co., Owego, N. Y., $6,800; McDermott & Co., Allentown, Pa., $10,200; Jacob F. Sechler & Co., Jacksonville, Pa., $6,700; R. T. & C. D. Steward Contracting Co., Easton, Pa., $6,790.

READING, PA.—The Berks County Court has authorized the construction of three bridges, in Robeson Township over Hay Creek, between Birdsboro and White Bear, in Colebrookdale Township, and in Bern Township over the Schuylkill Canal.

RAPIDAN, VA.—Bids are asked until May 14 by the County for the construction of a 3-span steel bridge, abutments and piers to be of concrete. W. E. Coons, Culpeper, Va., is Clk.

LINDALE, GA.—Bids are asked by the Floyd County Commissioners, Rome, Ga., until May 15 for the construction of a steel bridge across Silver Creek at Lindale, 84 ft. long, roadbed 18 ft. wide, two sidewalks, each six feet wide, piers of steel or concrete, floors of concrete, bitulithic or wood.

SMITHVILLE, TENN.—The County Supervisors have decided to have two bridges constructed this year, one over Smith Fork, near Temperance Hall, and the other over Caney Fork River, near Sligo.

CHILLICOTHE, OHIO.—Bids are asked until noon, May 11, by the County Auditor, Ross County, for the construction of a concrete arch culvert.

XENIA, OHIO.—The OREGONIA BRIDGE CO. has been awarded the contract by the County at $11,090, for the construction of the substructure and superstructure of the bridge over Little Miami River at Roxanna.

HAMILTON, OHIO.—Bids are asked until May 12 by J. E. Brate, County Audr., for the repair of bridge abutment in Milford Township.

DANVILLE, IND.—Bids are asked by the Commissioners of Hendricks County until 10 a. m., May 4 for the construction of bridges in various townships. W. H. Nichols is County Audr.

LOGANSPORT, IND.—Bids are asked until 10 a. m., May 7, by George W. Cann, County Audr., for painting several iron bridges.

SALEM, IND.—Bids are asked by the Board of Trustees until 7.30 p. m., May 4, for removing the east abutment of the West Market St. bridge. E. P. Routh is Clk. Bd.

MICHIGAN CITY, IND.—Bids are asked until 10 a. m., May 5, by the County Audr., for constructing three bridges and one culvert in Michigan City.

ROCKVILLE, IND.—Bids are asked until 1 p. m., May 5, by the County Auditor, for constructing concrete piers.

DELPHI, IND.—Bids are asked until noon, May 4, by the County Auditor, for constructing four bridges.

GREENSBURG, IND.—Bids are asked until 1 p. m., May 5, by Frank E. Ryan, County Audr., for constructing four reinforced concrete bridges and one steel bridge with concrete floor and abutments.

COLUMBUS, IND.—Bids are asked until May 5 by the County Auditor, for constructing three bridges.

CHICAGO, ILL.—Bids are asked until 11 a. m., May 1, by the Department of Public Works, for repairing the east approach to the 18th St. viaduct and separate bids are also asked for repairing the west approach.

SUPERIOR, WIS.—The Wisconsin Central Ry. Co. on April 14, awarded the contract to WHITNEY BROS. for constructing in the city the several trestles that will have to be put in for the new line the road is building here. W. A. Bradford is Pres., Milwaukee, Wis.

WICHITA, KAN.—The CANTON BRIDGE CO. has been awarded the contract at $9,474 for constructing the concrete bridge over the drainage canal on East Douglas Ave. R. N. Dorr is City Clk.

ARKANSAS CITY, KAN.—The TOPEKA BRIDGE & IRON CO., was awarded the contract on April 13 by the County Commissioners for the construction of the concrete arch bridge over the Arkansas River at Arkansas City, at about $20,000. It is 550 ft. long with nine arches, the middle one of which is 66 ft.

WARRENSBURG, MO.—Bids are asked until May 5 by David Mohler, Highway Engr., Johnson County, at the office of the County Clerk, for constructing about 60 culverts.

Johnson County has awarded the contract for the construction of about 30 culverts to the MIDLAND BRIDGE CO., Gibraltar Bldg., Kansas City, Mo., at $18,000. J. R. Grinstead is County Clk.

KAUFMAN, TEX.—Commissioners of Kaufman County have voted to expend the sum of $10,000 for the construction of steel bridges.

ARAPAHO, OKLA.—Bids are asked until May 6 by the County Commissioners of Custer County for the construction of two steel bridges.

CASTLE ROCK, COLO.—We are officially advised that the following bids were received on April 17, by T. W. Jaycox, State Engr., Denver, Colo., for the construction of a reinforced concrete bridge here: Abel & Roberts, $4,490; Levy Construction Co., $4,650; Pueblo Bridge Co., Pueblo, Colo., $4,423; Jones, Wheeler & Cramer Engineering Co., $6,690; C. G. Sheely, 219 McPhee Block, Denver, Colo., $4,249.

EUGENE, ORE.—Bids are asked until 2 p. m., May 8, by the County Commissioners for the construction of a county bridge across Brumbaugh Creek. E. U. Lee is County Clk.

MILTON, ORE.—A. E. EBERHART has been awarded the contract by the County at $3,150, for the construction of a steel bridge over the Walla Walla River.

GLEN ELLEN, CAL.—Bids are asked until noon, May 4, by the Board of County Supervisors for the construction of a combination bridge over Sonoma Creek. F. L. Wright is County Clk.

OGDEN, UTAH.—Bids are asked until May 11, by the city for the construction of a 65-ft. span reinforced concrete arch bridge over the Ogden River. A. F. Parker is City Engr.

GLADSTONE, MAN.—Bids are asked by P. St. Clair McGregor until May 5, for the construction of a steel bridge on concrete piers across the river here, span, 100 ft. Work must be completed by Aug. 1.

BUILDINGS.

(* *denotes that this work is advertised in Engineering News.*)

DOVER, N. H.—Bids are asked until 3 p. m., June 8, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction (including plumbing, gas-piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Dover.

BOSTON, MASS.—A theater to be known as the Lyric is to be built here and will occupy property having a frontage of 40 ft. on Tremont St. and 83 ft. on Seaver Pl., running through to and having a frontage of 110 ft. on Warrenton St. The total land area is about 18,869 sq. ft. The theater will be erected by Charles H. Bond. The theater will be designed by Hill, James & Whitaker, Archs., 15 Ashburton Pl. and is to cost complete about $500,000. There will be a facade on Tremont St. six stories in height, the lower stories being occupied by the lobbies, foyers, stairways, entrance hall, etc. The upper four stories facing Tremont St. will be used for offices.

The contract for an 8-story brick and stone mercantile and office building, to be built at 38 West St., has been awarded by Henry Parkman to WHIDDEN CO., 155 Milk St. Cost, $100,000. Parker, Thomas & Rice, 110 State St., are Archs.

The contract for construction of a bank building at Washington and Union Park Sts., South End, has been awarded by the Directors of the Boston Penny Savings Bank to GEORGE CAVERLY, 2080 Washington St., Boston. The building will have one story, the banking room being 28 ft. high. The site measures 50 ft. on Washington St., upon which the building will front, and 125 ft. on Union Park St. Oliver & Lichfield, 6 Beacon St., are Archs. Noted on April 16.

BRISTOL, CONN.—The Building Committee has accepted the plans of Sperry & Sellers, New Haven, for the addition of the South Side school, and Charles P. Waterman is Engr.

NEW BRITAIN, CONN.—Bids are asked by F. C. Costello, Secy. City Bldg. Comn., until May 11, for remodeling the City Hall. McKim, Mead & White, 160 Fifth Ave., New York, N. Y., are Archs.

NEW YORK, N. Y.—Bids are asked until 2.30 p. m., May 11, by Robert W. Hebberd, Comr. of Public Charities, for laying new flooring and base throughout Cumberland St. Hospital, Boro. of Brooklyn, the City of New York.

NEW YORK, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m., May 5, for erecting a building for an engine company, to be located on the bulkhead at the foot of 132d St., Harlem River, Boro. of Manhattan, and for erecting a building for an engine company, to be located on the pier at the foot of 35th St., North River, Boro. of Manhattan.

Bids are asked until 10.30 a. m., May 7, by Nicholas J. Hayes, Fire Comr., for alterations and additions to the quarters of Engine Company 26, located at 220 West 37th St., Boro. of Manhattan; additions and alterations to the building of Engine Company 28, located at 604 East Eleventh St., Boro. of Manhattan, and for additions and alterations to the storehouse building located at No. 20 Eldridge St., Boro. of Manhattan.

NEW YORK, N. Y.—W. H. Whiting, 5 Beekman St., advises us that estimates will be taken until May 1 for constructing a 6-story brick and stone building at 19 Beekman St., to be used for a warehouse and offices. The structure will be about 44 × 100 ft. and is estimated to cost $50,000. Baker & Hemstreet, 156 Fifth Ave., are Archs.

A church, to be known as the Church of Our Lady Consoler of the Afflicted, is to

be built on the west side of Blackwell's Island opposite 67th St., for the Roman Catholic Diocese of New York, to cost about $100,000. It will be built of brick, 68.8 × 124.8 ft. W. Flanagan is Arch.; Rev. John M. Farley is Archbishop of New York.

G. A. Conable, Arch., 15 Myrtle Ave., Jamaica, L. I., has let general contract to WAKEHAM & MILLER for a 2-story church for the German Evangelical Lutheran Trinity Congregation. Cost, $50,000. Noted on Feb. 20.

NEW YORK, N. Y.—On April 24 the Board of Estimate and Apportionment approved of the expenditure of $4,607,075 for schools in the City of New York. A complete list, except two high schools for Brooklyn, for which $500,000 is allowed, was given in the issue of Engineering News of April 16. Egerton L. Winthrop, Jr., is Pres., and C. B. J. Snyder is Supt. School Bldgs., Dept. of Education.

George H. Streeton, Arch., 289 Fourth Ave., has let general contract to JOHN F. KELLEY & SONS for a 3-story school building for the St. Raymond's Roman Catholic Congregation, Rt. Rev. Edward McKenna, Rector. Cost, $90,000.

We are officially advised that the P. J. CARLIN CONSTRUCTION CO., 16 East 23d St., New York, has contract, at about $250,000, for constructing a 3-story parochical school building for the St. Augustine's Roman Catholic Congregation, Brooklyn. The building will be erected on Sterling Pl., about 200 ft. west of Sixth Ave., and will extend through to Park Pl. Rev. W. McCarthy is Rector of St. Augustine's Church.

NEW YORK, N. Y.—Bids were received on April 27, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for installing heating and ventilating apparatus in Public Schools (a) No. 16, Boro. of the Bronx, and Nos. (b) 56 and (c) 90, Boro. of Queens: Frank Dobson Co., 419 East 53d St., (a) $32,800, (b) $25,775, (c) $42,800; James Curran Mfg. Co., 512 West 36th St., (a) $32,000, (b) $26,000; Raisler Heating Co., 1966 Broadway, (a) $34,109, (b) $28,282, (c) $43,872; E. Rutzler Co., 127 White St., (a) $32,696, (b) $25,644, (c) $43,757; Daniel J. Rice, 5 East 42d St., (a) $39,000; John Hankin & Bro., 550 West 25th St., (a) $32,937; Harry S. Phelp, (a) $31,872; Gillis & Geoghegan, 537 West Broadway, (a) $32,450, (b) $25,350, (c) $41,950.

NEW YORK, N. Y.—McKim, Mead & White, Archs., 160 Fifth Ave., advise us that a Jury of Award has made a report recommending the adoption of the plans submitted by the firm of McKim, Mead & White for the proposed municipal building. The plans were submitted in competition. The recommendation of the Jury of Award does not end the competition. The plans will be submitted to the Bridge Department and Public Service Commission. If found satisfactory the award will be made, and then the plans will be submitted to the Municipal Art Commission. The building is to be 23 stories in height and is to cost about $7,000,000, exclusive of the cost of the site, which is bounded by Park Row, Centre St., Tryon Row, and Duane St. The two main floors are to be used mainly for a terminal for transit lines. Walter Cook is City Arch.; James W. Stevenson is Comr. of Bridges; William R. Willcox is Chn. of the Public Service Comn. for the First District.

Bids are asked by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, until 11 a. m., May 11, for alterations, repairs, etc., for Public Schools Nos. 11, 26, 29, 32, 33, 45, 48, 51, 55, 67, 69, 87, 94, 127, 141, High School of Commerce and De Witt Clinton High School, Boro. of Manhattan; for alterations, etc., to Public School No. 45, Three Mile Mill Road, near Rockaway Road, Jamaica South, Boro. of Queens.

ALBANY, N. Y.—U. G. Stockwell, Tweddle Bldg., Albany, has completed plans for the erection of a row of 22 2-story and attic dwelling houses on the north side of the Manning Boulevard, between Allen St. and West Lawrence St. The houses will be of brick, with brick and stone fronts and concrete cellars. Each house will be equipped with a hot water heating plant. Work will be begun at once.

ALBION, N. Y.—Bids were received on April 27, by Mrs. James L. Armstrong, Pres. Bd. Mgrs. Western Home of Refuge for Women, Albion, for construction, complete, including heating, plumbing and electric work, of cottage for inmates. The lowest bid was submitted by J. J. Churchyard, 648 Clinton St., Buffalo, N. Y., at $27,470.

ITHACA, N. Y.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Ithaca, N. Y., to CECIL L. SAUNDERS, Builders' Exchange, Cleveland, Ohio, at $76,710. Time, Dec. 31, 1909. Noted fully on April 23.

YONKERS, N. Y.—The following contracts have been let by William F. Snyder, Arch., Radford Bldg., Yonkers, for seven 3-story double brick flat and store buildings, 34 × 96 ft. and to cost $100,000: Masonry, to LYNCH & LARKIN, 195 Riverdale Ave.; carpenter work to FRANK SHERWOOD, and plumbing to J. J. HARRISON. The building will be built for A. S. Cochran, 6 Hudson St., on Nepperhan Ave., near Orchard Pl.

ATLANTIC CITY, N. J.—H. A. Stout, Arch., Bartlett Bldg., will prepare plans for 5-story addition to the Galen Hall Hotel, Pacific Ave., Atlantic City. Cost, $100,000.

PATERSON, N. J.—Contracts have been let by Charles Edwards, Paterson Savings Institution Bldg., for a 3-story stone church, 40 × 150 ft., for the Home of Divine Providence, as follows: Masonry, FELIX G. PITTET, 126 Market St.; carpenter work to P. McNAMARA, Grove St., and steam heat and plumbing to A. J. ROGERS CO., 90 Broadway, Paterson. Cost, $60,000.

BRYN MAWR, PA.—Sabin Wolworth Colton, Jr., of E. W. Clark & Co., 321 Chestnut St., has had plans drawn for a residence which he proposes having built at State Road and Morris Ave., Bryn Mawr. It is roughly estimated that when completed it will represent an expenditure between $200,000 and $250,000. Horace W. Sellers, Stephen Girard Bldg., Philadelphia, Pa., is Arch.

WILKES-BARRE, PA.—The Board of School Government will receive competitive plans until June 1 for a fireproof stone and brick high school building, to be erected on North Washington St, not to exceed $300,000 in cost, exclusive of heating, ventilating, electric wiring and electric power. The building must have not less than 24 rooms. The directors are Dr. G. W. Guthrie, Pres.; Dr. W. G. Weaver, Secy.; Dr. Charles Long, Dr. Boyd Dodson, Iorwerth Jones and A. E. Burnaford.

PITTSBURG, PA.—McClure & Spahr, Archs., Keystone Bldg., have let general contract to JAMES L. STUART, Stevenson Bldg., for a 6-story fireproof office building, to be built at Liberty and Oliver Aves., for the Oliver Estate. Cost, $150,000.

WASHINGTON, D. C.—Bids were received as follows April 25 at the office of Elliott Woods, Supt. of the U. S. Capitol Building and Grounds, for furnishing all the iron stairways and some other iron work for the Senate office building: Hecla Iron Works, Brooklyn, N. Y., (a) $52,350; (b) $69,800; (c) $25,000; (d) $6,000; (e) $9,000 (error). Richey, Brown & Donald, Long Island City, New York, (a) $58,500; (b) $102,625; (c) $27,475; (d) $31,025; (e) $75,150. Snead & Co., foot of Pine St., Jersey City, N. J., (a) $85,691; (b) $124,409; (c) $38,811; (d) $47,000; (e) $85,597. A. F. Jorss, 315 13th St., Washington, D. C., (a) $53,785; (b) $92,068; (c) $28,415; (d) $26,865; (e) $63,029. Winslow Bros., 46th Ave. and Harrison St., Chicago, (a) $39,450; (b) $69,710; (c) $17,450; (d) $22,000; (e) $53,380. Brown, Ketcham Co., 2549 West Michigan St., Indianapolis, Ind., (a) $75,300; (b) $101,800; (c) $33,300; (d) $42,000; (e) $68,500. L. Schreiber & Sons Co., Eighth and Culvert Sts., Cincinnati, Ohio, (a) $65,440; (b) $90,896; (c) $26,200; (d) $35,200; (e) $62,135. John Williams, New York, (a) $47,000; (b) $80,000; (c) $21,000; (d) $26,000; (e) $59,000. Biggins & Co., Philadelphia, (a) $41,917; (c) $19,900; (d) $22,243. Wisconsin Iron & Wire Works, Milwaukee, Wis., (c) $16,291. Flour City Ornamental Iron Works, Minneapolis, (a) $36,000; (b) $51,800; (c) $16,390; (d) $4,250 (error); (e) $6,168 (error). F. P. Smith Wire & Iron Works Co., Chicago, (a) $61,800; (b) $103,250. E. H. Kitchen & Co., Binghamton, N. Y., (c) $34,540. Tyler Wire Co., Cleveland, Ohio (a) $77,533; (b) $93,647; (c) $32,549; (d) $44,984; (e) $61,098.

BALTIMORE, MD.—The Johns Hopkins Hospital, Henry D. Harlan, Pres., Trust Estate, 1063 Calvert Bldg., will erect a building at cost of $70,000 at the corner of South and Water sts. It will be of reinforced concrete construction, 64x108 ft. Baldwin & Pennington, Professional Bldg., Baltimore, are Archs.

PORTSMOUTH, VA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at Portsmouth, Va., to R. H. RICHARDSON & SON, Hampton, Va., at $75,348. Time, Dec. 1, 1909. Noted fully on April 16.

RICHMOND, VA.—The Commission on Addition and Improvement to the Library Building and Capitol Building and Grounds will receive the following bids until 10 a. m., May 25: Plans for an addition and improvement to the library building to cost not more than $85,000; bids for repairing the porticoes and rendering same waterproof, also repairing where necessary the stucco on the entire Capitol Building; bids for three sets of stone steps for the Capitol grounds. Claude A. Swanson is Chn.; George P. Mundy is Secy.

ELKINS, W. VA.—C. P. HOWELL, of Clarksburg, W. Va., has been awarded the contract to construct the Odd Fellows' State home at Elkins, W. Va., at $64,280.

BESSEMER, ALA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Bessemer, Ala., to ALFRED STRUCK CO., Inc., Louisville, Ky., at $47,940. Time, March 31, 1909. Noted fully on April 16.

LIMA, OHIO.—Bids are asked until noon, May 4, by the Board of Public Service for alterations to be made to the city building on west of High St. De Curtins & Parks, Opera House Block, Lima, are Archs. L. L. Crumrine is Clerk.

YOUNGSTOWN, OHIO.—The contract for constructing an addition to the building of the Dollar Savings & Trust Co. has been let to the THOMPSON-STARRETT CO., Fisher Bldg., Chicago.

YOUNGSTOWN, OHIO.—We are advised by C. C. & A. L. Thayer, Archs., Lawrence Savings & Trust Bldg., New Castle, Pa., that bids will be received about June 15 for the Masonic Temple to be erected at once in this city, at a cost of $100,000. The building will be seven stories in height, of brick, stone and steel construction, and will cover a ground plan 64x140 ft. The structure will have systems of fan ventilation, plumbing and heating, two elevators, marble interior decorations, etc. The architects will prepare the plans, take bids and award all contracts.

COLLINWOOD, OHIO.—The proposed Lake View school building at Collinwood will contain sixteen rooms in addition to principal's and teachers' rooms. Separate fireproof exits from each room are provided, entirely disconnected from main hall and stairways and opening directly to the outside. The building will be heated and ventilated with a fan system located in a separate building 50 ft. from main school building. The plans of this building were prepared by Searles, Hirsh & Gavin, Archs., Schofield Bldg. The exterior will be of pressed brick, with stone trimmings and a flat roof.

EVANSVILLE, IND.—The Evansville Furniture Exchange will receive bids for the construction of a 6-story business block at Fourth and Vine Sts. Estimated cost, $100,000. Benjamin Rosse, A. F. Karges and W. A. Kach are Dirs.

LA FAYETTE, IND.—The Trustees of Purdue University have awarded a contract for the construction of the memorial gymnasium building to JOSHUA A. CHEW, of this city, at $63,672.

LAPORTE, IND.—Commissioners of Laporte County have let a contract for the construction of a Superior court-house to WILLIAM STILLWELL of Lafayette, at $88,190.

GARY, IND.—The STANDARD CONSTRUCTION CO., 1547 First National Bank Bldg., Chicago, Ill., has been awarded the contract, at $194,800, for the erection of the Emerson School building at Gary. Thos. H. Cutler is Secy. Bd. of School Trustees; William B. Ittner, Bd. of Education, St. Louis, Mo., is Arch.

*DETROIT, MICH.—Bids are asked until 3 p. m., June 3, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for extending remodeling, etc. (except elevator and lifts), the U. S. post-office and court-house at Detroit.

The North Baptist Congregation, Rev. T. W. Young, Pastor, 17 North Grand Ave., West, has let general contract to VINTON CO., Woodbridge and Beaubien Sts., Detroit, for a brick and stone church, at Woodward and Pingree Aves., to cost $80,000. J. H. Coxhead, 930 Ellicott Sq., Buffalo, N. Y., is Arch.

DIXON, ILL.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has rejected all bids recently received for the construction of a post-office at Dixon, Ill. The lowest bid was submitted by G. Maffioli, Rockford, Ill., at $39,933.

CHICAGO, ILL.—Plans are being prepared by Holabird & Roche, 100 Jackson Boulevard, for a 7-story fireproof hospital to be built at a cost of about $300,000, for Cook County. The building will occupy a site at Harrison and Lincoln Sts. Joseph F. Hass is County Clerk.

Bids are asked by H. G. Wilson, Acting Secy., Bd. of Directors of the Chicago Public Library, until 4 p. m., May 6, for installing a vacuum cleaning plant for the Public Library.

CHICAGO, ILL.—Bids are asked until noon, May 1, by the Board of Education, Dearborn and Madison Sts., for erecting the proposed Tilton School, on 42d Ave., between Park and West End Aves. It will have three stories, 139 × 146 ft.

The following contracts have been let by J. E. O. Pridmore, Arch., 168 Dearborn St., for a 4-story theater building to be erected at 62d and Halstead Sts., for the Englewood Stock Co.: Masonry, to KALCHBRENNER & TIEMAN, 138 Washington St.; steam heating to JOHN R. KEHM CO., 51 North State St. Cost, $100,000.

Contracts have been let as follows for constructing two 6-story apartment buildings at Kenmore and Bryn Mawr Aves., for Samuel Dalton, 100 Michigan Ave.: Masonry to JOHN PETERSON, 84 LaSalle St.; carpentry to OLSON BROS., 6501 Peoria St.; steam heating to G. H. KIRK, 6612 Wentworth Ave. Cost, $100,000. J. E. O. Pridmore, 168 Dearborn St., is Arch.

ST. PAUL, MINN.—The Board of School Inspectors, O. Savard, Secy., will receive competitive designs from architects until Aug. 1, for the new Mechanic Arts High School to be built at Central Ave. and Robert St. It will be three stories high of pressed brick and cut stone, fireproof construction, having 62 rooms, freight elevator and shops. Cost, complete, $250,000.

It is stated the general contract for the construction of the 10-story brick and stone fireproof hotel for the St. Louis syndicate to be built here, has been awarded to the BRACK CONSTRUCTION CO., St. Louis, Mo. Isaac T. Cook, Chemical Bldg., St. Louis, is promoting the hotel. Mark Fitzpatrick, 15 West Ninth St., St. Paul, Minn., is Arch. Cost, $1,000,000.

NEW ULM, MINN.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., June 2, for construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at New Ulm.

DULUTH, MINN.—Plans are being prepared for three buildings to be erected for St. James' Orphan Asylum, at a cost of $120,000. German & Lignell, Torrey Bldg., are Archs.

Contract for constructing the foundation for the proposed 4-story Y. W. C. A. buildings has been let to WILLIAM BERG. George H. Claypool is Chn.; German & Lignell, Torrey Bldg., are Archs. Estimated cost, $100,000.

MINNEAPOLIS, MINN.—C. H. Johnston, Arch., Manhattan Bldg., St. Paul, Minn., is preparing plans for the 4-story pressed brick and cut stone fireproof engineering building to be built for the State University here. F. S. Jones is Dean of the College of Engineering. Cost, $260,000.

ALBERT LEA, MINN.—A 5-story addition is to be erected to the warehouse of the Furniture Exhibition Co., on Illinois St., at a cost of about $400,000.

LINCOLN, NEB.—The general contract for erecting a mechanical laboratory for the University of Nebraska has been let to F. P. GOULD & SON, Omaha, for $95,880. J. S. Dales is Secy.

GRAND ISLAND, NEB.—Bids are asked until 3 p. m., June 1, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction (complete) of the U. S. post-office and court-house at Grand Island.

JAMESTOWN, N. DAK.—Bids will be received about May 16 for erecting a building to cost $75,000, for the State Hospital for the Insane at Jamestown. L. B. Baldwin is Supt.; M. E. Beebe, Fargo, N. Dak., is Arch.

WATERTOWN, S. DAK.—Bids were opened April 28 at the office of the Supervising Architect of the Treasury, Washington, D. C., for the construction of a post-office at Watertown, S. Dak.. Moore & Danner, Kokomo, Ind., $77,785; Walter Peterson, Omaha, Neb., $78,883, 14 months; [illegible] W. Miller, St. Paul, Minn., $74,993; Gray Construction Co., Watertown, S. Dak., $7[illegible], 13 months; Northern Construction Co., [illegible] Milwaukee, Wis., $72,000. Time, July 1, 19[illegible].

*FORT D. A. RUSSELL, WYO.—Bids were received on April 15, by [illegible] V. K. Hart, Acting Q. M., Cheyenne, Wyo., for constructing, steam heating, [illegible]mbing, electric wiring and furnishing and installing electric light fixtures in [illegible]ters, stables, etc., at Fort D. A. Russell. Among the bids submitted were the following: Atkinson Bros., Colorado Springs, [illegible] two sets of colonels' quarters, $35,980; double artillery barracks, $231,900; six [illegible] for horses, $119,880; total $387,760; [illegible] McGarvey, Cheyenne, Wyo., one field [illegible]rs' quarters, $13,550; three captains' [illegible]rs, $73,500; total, $86,850; the William[illegible]mpson Construction Co., Temple Court, [illegible]ldg., Denver, Colo., four sets of lieut[illegible] quarters, $79,056; four non-commi[illegible]d officers' quarters, $25,236; two ba[illegible]racks, $32,236; stables for band hors[illegible], $12,500; two gun sheds, $26,590; total $1[illegible]; heating, J. J. Hannigan, Omaha, [illegible] $38,000; plumbing, Healey Plumbing [illegible] Heating Co., 277 West Third St., St. P[illegible] Minn., and Barnes & Stevens, Colorado S[illegible]gs, $55,000.

ST. LOUIS, MO.—Plans ha[illegible] been completed for a 12-story buildi[illegible] for William O. Langan at the corner of [illegible]lmar Boulevard and Bayard Ave., to co[illegible] $300,000. The ground has a frontage of 120 ft. on Delmar Boulevard and a depth of 167 ft. on Bayard Ave. The exterior of the structure will be finished in brick with stone and terra cotta trimmings. It will be completed April 1, 1909. It will contain a cold-storage department. C. Ross Chamblin, 620 Chestnut St., is Arch.

Hellmuth & Spiering, Archs., Equitable Bldg., St. Louis, are preparing plans for apartment-house, to have three stories of brick and stone construction. Cost, $200,000.

Bids are asked until May 8, by Barnett, Haynes & Barnett, Archs., Frisco Bldg., for a cathedral, 220 × 340 ft., at Lindell and Newstead Aves., for the Archepiscopal See of St. Louis, Most Rev. J. J. Glennon, Archbishop. Cost, about $1,000,000.

KANSAS CITY, MO.—Howe & Holt, Archs., have prepared plans for a 4-story hospital building for St. Mary's Hospital, care Mother Valeria. Cost, $200,000. M. J. Morrison, Supt., 2412 East 23d St., will take figures and award contracts.

SAN ANTONIO, TEX.—J. Flood Walker, Arch., Moore Bldg., San Antonio, has let general contract to the SELDON BRECK CONSTRUCTION CO., Fullerton Bldg., St. Louis, Mo., for erecting a 7-story brick and stone hotel for the Antonio Hotel Co., Swearingen & Son, lessees, Hot Wells Hotel, San Antonio. Cost, $450,000.

SPOKANE, WASH.—E. R. Week is having plans prepared for an apartment house to be built on North Washington St., between Augusta Ave. and Spofford Ave. It will be a 3-story brick structure and will cost $150,000. The lower floor will be devoted to commercial purposes and the two upper stories will be fitted up for living apartments.

SPOKANE, WASH.—Bids were received as follows on April 23 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installation of a heating plant at Spokane post-office: Thomas & Smith, 17 South Carpenter St., Chicago, $33,573; Hurley & Co., 392 Selby St., St. Paul, Minn., $23,100; Iowa Mfg. Co., Oscaloosa, Iowa, $22,815; G. A. Kees Domestic Engineering Co., 260 East Seventh St., St. Paul, Minn., $21,998; William H. Maxwell, Spokane, Wash., $22,836. Time, April 1, 1909.

On April 11 the citizens voted to issue $250,000 of bonds for erecting a parental school. E. A. Thomas is Secy. Bd. School Dirs.

SEATTLE, WASH.—Bids are asked until May 11 by George B. Lamping, Secy., Seattle Armory Comn., 505 Colman Bldg., for erecting an armory at Western Ave. and Leonara St. Bids may be submitted as a whole or separately on the following: General contract, sewerage, drainage, plumbing and gas fitting; steam heating and hot water supply system; structural steel for roofing of drill shed; probable cost, $130,000. Kerr & Rodgers are Archs., Northern Bank & Trust Bldg.

MILES, WASH.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until 2 p. m., May 20, for furnishing materials and labor required to construct and complete five day school plants at Nespelem No. 5, Barnaby No. 6, Monaghan No. 7, Walker Prairie No. 8, and San Poil No. 9, Colville Reservation, Washington. Captain J. Mc A. Webster is U. S. Indian Agent, Miles, Wash. C. F. Larrabee is Acting Comr., Washington, D. C.

BERKELEY, CAL.—About $600,000 will be expended at the University of California for the proposed library building.

WINNIPEG, MAN.—Bids will be received in about three weeks for a 5-story reinforced-concrete Y. W. C. A. building, 100 × 80 ft., here. Herbert B. Rugh is Arch., Union Bank Bldg.

PRINCE ALBERT, SASK.—Competitive plans will be received by the Trustees of High School District No. 3 until May 11 for a high school building, to cost not to exceed $75,000. C. O. Davidson is Secy.-Treas.

CALGARY, ALTA.—Press reports state that the following buildings will be erected in Calgary, Alta., this year: Court-house, $225,000; Canadian Pacific Railway depot, $225,000; City Hall, $150,000; hospital, $145,000; normal school, $140,000; registry office, $120,000; Y. M. C. A. building, $90,000; and high school, $85,000, making a total of $1,158,000.

VANCOUVER, B. C.—The congregation of the Wesley Methodist Church, Vancouver, B. C., will erect a church at a cost of about $100,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

TAUNTON, MASS.—The City Council has appropriated the sum of $15,000 for water-works improvements. Geo. A. King is Supt. W.-Wks.

EAST GREENWICH, R. I.—The TANK & McKINNON CONSTRUCTION CO., of Providence, R. I., has been awarded the contract by the city for two miles of water mains.

NEW YORK, N. Y.—Bids are asked until 2 p. m., May 13, by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, for relaying 12 and 20-in. water mains through highway bridge at Southern Boulevard and 1424 St., Borough of the Bronx; furnishing and delivering 6-in. inside screw gate-valves and 32 tons of hydrant gate valve boxes and covers; and laying a 30-in. cast-iron force main, together with all appurtenances complete, along Trotting Course Lane and Myrtle Ave. to Cypress Ave., Borough of Queens.

*OSWEGO, N. Y.—The following bids were opened on April 22 by the Water Department for steam pumps and turbines for the lake water system: D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, Pa., $8,555 and $10,245; Wheeler-Green Electric Co., $10,865; Morris Machine Works, $13,300; R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa., $9,033 and $8,483; Platt Iron Works, $10,487; Watson-Stillman Co., 26 Cortlandt St., New York, $6,290 and $6,500; Dravo, Doyle & Co., Arcade Bldg., Philadelphia, Pa., $12,600; Alberger Pump Co., 85 Liberty St., New York, $9,745; Allis-Chalmers Co., Milwaukee, Wis., $13,470.

*BRIDGETON, N. J.—Bids are asked until noon, May 11, by William Daniels, Chn. Water Com., for repairing the water-works reservoir.

FRANKLIN, PA.—The citizens on April 14 voted to issue $260,000 bonds to purchase the plant of the Venango Water Co.

LANCASTER, PA.—THE U. S. CAST-IRON PIPE & FOUNDRY CO., 17 Broadway, New York, was awarded the contract by the Water Com. on April 23 for furnishing as much water pipe as may be required to May 1, 1909.

WILMINGTON, DEL.—Theodore A. Leisen, of Wilmington, is preparing plans for slow-sand filters, estimated to cost about $250,000.

GRAHAM, VA.—The city has voted $20,000 of bonds for the improvement of water-works and streets. J. M. Smith is Mayor.

WHEELING, W. VA.—The Water Board on April 17 awarded the contract for furnishing a steam condenser for the pump at the water-works to the EPPING-CARPENTER CO., of Pittsburg, at $9,562 installed, with the station restored to the same condition as it was prior to beginning of the work.

NEWTON, N. C.—The LYNCHBURG FOUNDRY CO., of Lynchburg, Va., has been awarded the contract by the city to construct municipal water-works. W. B. Gaither is Mayor.

ATHENS, GA.—The citizens on April 15 voted to issue $35,000 bonds for extending the water-works and $40,000 for constructing sewers. J. W. Barnett is City Engr.

ATLANTA, GA.—SCOTT BROS., of Lynchburg, Va., have been awarded the contract for the excavation work in constructing the reservoir here with a capacity of 350,000,000 gallons of water. The work will involve the removal of about 125,000 cu. yds. of material. R. M. Clayton is City Engr. Noted April 16.

ALBANY, GA.—We are officially advised that the following contracts were awarded on April 18 by the City Council for water-works material: For cast-iron pipe and special castings, to U. S. CAST-IRON PIPE & FOUNDRY CO., Chattanooga, Tenn.; valves and boxes, to FAIRBANKS CO., Baltimore, Md.; hydrants, to R. D. WOOD & CO., 400 Chestnut St., Philadelphia, Pa. Y. C. Rust is City Clk.

FORT DADE, FLA.—We are officially advised that the following bids were received on April 16 by the Constructing Quartermaster for six surface wells: McCay Engineering Co., Baltimore, Md., $3,756; Bates Plumbing Co., Tampa, Fla., $4,680; Edwards Construction Co., Tampa, Fla., $4,757.

FOLEY, ALA.—The Consumers' Service Corporation contemplates installing a municipal water-works and electric-light and power plant. John Walker, Magnolia Springs, Ala., is interested.

NORTH BIRMINGHAM, ALA.—The citizens have voted in favor of issuing $5,000,000 of bonds for a municipal water and lighting plant. A. Ward is Mayor.

ALCORN, MISS.—Bids are asked until May 12 by the Water Commissioners, Jackson, Miss., for boring an artesian well at Alcorn College. J. T. Savage is Chn. Comrs.

MONTICELLO, MISS.—Bids are asked until May 4 by W. H. Speights, Clk. Bd. Supervisors, for drilling an artesian well, size 2, 3 and 4-in. in the court-house yard, galvanized piping and all material to be furnished by the contractor.

FORT SAINT PHILIP, LA.—Bids are asked until May 15 by Capt. Arthur Cranston, Q. M., U. S. A., for the construction of water-works.

VERSAILLES, KY.—We are officially advised that the following bids for the construction of water-works were received on April 20 by the Mayor and Council, using (a) brick pump-house, (b) concrete blocks for pump-house, (c) solid concrete for pump-house, (d) concrete tower and tank instead of steel: Charles F. Fitch & Co., Louisville, Ky., (a) $37,500; (b) $38,300; (c) $39,000; (d) $40,400; Frank Schefold, New Albany, Ind., (a) $32,000; Fairbanks, Morse & Co., (a) $32,700; P. H. Porter, Clinton, Ky., (a) $36,222. Drake C. Naive is Clk. Council. The Holmboe Co., Lincoln Bank Bldg., Louisville, Ky., are Engrs.-in-Charge.

SPRINGFIELD, OHIO.—The City Council has passed a resolution providing for the issue of $20,000 bonds for the extension of water mains. M. J. Bahin is City Engr.

NEWARK, OHIO.—We are officially advised that the Riggs & Sherman Co., Toledo, Ohio, has reported that the distribution system of the new municipal water-works plant at Newark is being flushed and the machinery is being tested out for the purpose of putting the plant in operation at once. Thus far the plant has cost the city $300,000, and an appropriation of $85,000 has just been made for the construction of an additional 16 miles. This with that already constructed, will give the city of Newark a total of 38 miles of water mains.

SPENCER, IND.—The Home Water-Works Co., Spencer, Ind., recently incorporated with a capital of $20,000, has under consideration the construction of a new water-works plant here.

DETROIT, MICH.—The Water Board on April 14 decided to issue $500,000 bonds to enlarge the pumping plant and to extend the 12-in. main on Jefferson St., a distance of about 5,675 ft. Robert H. McCormick is City Engr.

SIOUX CITY, IOWA.—Bids are asked until noon, May 11, by E. E. Hosmer, County Audr., for the construction of a pumping and power plant, including machinery.

GRAND ISLAND, NEB.—Bids will soon be asked by the City Clerk for the wells, machinery, etc., necessary to supply 2,000,000 gallons of water per day, to be delivered in a reservoir at the city's plant, reservoir to be built by the city.

THERMOPOLIS, WYO.—We are officially advised that the HAVEMEYER CONSTRUCTION CO., 5 Wabash Ave., Chicago, Ill., was awarded the contract on April 20 by the town for the construction of a water system at about $48,475. J. B. Chessington is Town Engr.

GLENDIVE, MONT.—An extension of seven months has been granted to James Munn, of Deadwood, S. Dak. within which to complete his contract for the erection of structures in connection with the distribution system of the Lower Yellowstone irrigation project, Montana-North Dakota. The date for completion of contract under this extension is December 1, 1908.

The contract has been awarded to JOHN S. BENSON, of Williston, N. Dak. for the construction of lateral turnouts in connection with the Lower Yellowstone irrigation project, Montana-North Dakota, at $7,688.

FORT SMITH, ARK.—Bids are asked by A. Klingensmith, Arch., Illinois Bldg., Fort Smith, until May 12, for the construction of a water-system at the new county hospital.

GUTHRIE, OKLA.—The W. K. Palmer Co., Dwight Bldg., Kansas City, Mo., is preparing plans for a municipal filtration plant with a capacity of 3,000,000 gallons. Estimated cost, $30,000.

WAURIKA, OKLA.—The city has voted to issue $40,000 of bonds for the construction of water and sewer system.

STILLWATER, OKLA.—The citizens on April 7 voted to issue bonds for $33,000 for water-works extension. C. Edgerton is City Clk.

*CANON CITY, COLO.—Bids are asked until 8 p. m., May 20, by L. S. Dawson, City Clk., for furnishing material and constructing about eight miles of 26 or 30-in. conduit of either steel or continuous wood stave pipe, a settling basin, filter, two clear water reservoirs and accessories for the Canon City water-works system.

FORT MORGAN, COLO.—The Wildcat reservoir, which is on the line of the Riverside ditch and will be filled by it, will soon be constructed by the Riverside Co. The reservoir will have a capacity of 1,000,000,000 cu. ft., requiring a dam 3,000 ft. long and about 60 ft. high.

WENATCHEE, WASH.—The city has awarded the contract for 6,300 ft. of wooden pipe to extend the water system into the new residence section to the WASHINGTON PIPE & FOUNDRY CO.

SEATTLE, WASH.—See under Streets and Roads.

PORTLAND, ORE.—Bids are asked until 2 p. m., May 12, by the Water Board for furnishing and delivering wood-stave pipe, cast-iron pipe, etc. Frank T. Dodge is Supt. Bd.

Bids are asked until 1 p. m., May 12, for gate valves for cast-iron water mains.

REDWOOD CITY, CAL.—Bids are asked until 8 p. m., May 4, by the Board of Trustees for excavating for and laying complete about 1,500 ft. of 4-in. water pipe and placing all crosses, tees, plugs, special castings, valves and fire hydrants along the lines of said water pipe.

SAN FRANCISCO, CAL.—The auxiliary water supply reports, by Marsden Hanson, City Engr., H. D. H. Gonnick, Ch. Asst. Engr., Bd. of Pub. Wks., and T. W. Ransom, Consulting Engr., were received on April 16 by the Board of Supervisors. The estimated cost is $5,200,000.

MONTREAL, CAN.—The Water Committee on April 16 awarded the contract for the 12,000,000,-gallon pump for the water-works to the CALEDONIA IRON WORKS. John R. Barlow is City Surv.

MONTREAL, QUE.—Nine bids have been received by the city for 1,450 tons of iron pipe for the new 30-in. water main from Atwater Ave. eastward. The bids follow: The Stanton Iron Works, of Nottingham, England, $31 per ton; the Richards, Johnston, Clapham & Morris Co., of Manchester, England, $31.40; the CANADIAN IRON FOUNDRY CO., of Montreal and Three Rivers, $31.80 (awarded contract); the United States Cast-Iron Pipe and Foundry Co., of Buffalo, N. Y., $34.10; the Robert McLaren Co., of Scotland, $32; the W. McNally Co., of Montreal, $34; the Watson Jack Co., of Montreal, representing McFarlan & Strachan, of Glasgow, Scotland, $33.50; the Railway Spring & Supply Co., of Montreal, $31.47.

REGINA, SASK.—O. W. Smith and R. S. Lea, Consulting Engrs., employed by the city to look into a source for water supply, have recommended an expenditure of $100,000 for this purpose immediately.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

NEW HAVEN, CONN.—Bids are asked by C. W. Kelly, City Engr., until May 4, for constructing sewers in portions of six streets.

*MT. KISCO, N. Y.—Specifications are on file at the office of Engineering News, New York, for the construction of about 13 miles of sewers. Bids are asked until May 11.

WHITE PLAINS, N. Y.—Bids are asked until 8 p. m., May 4, by Peter Paulding, Village Clk., for constructing an addition to the sewage disposal works.

MERCHANTVILLE, N. J.—The citizens voted April 20 to issue $70,000 of bonds for the completion of the sewerage system. D. Everett Hill, 156 Fifth Ave., New York, is Engr.

*HUNTINGDON, PA.—The following bids for the construction of the sewer system were opened on April 16 by the Borough Council: A. Anstead, Altoona, Pa., $34,454; Perry, Colohane Co., New York, N. Y., $17,973; Central Construction & Supply Co., Harrisburg, Pa., $41,851; T. M. Oaks & Co., Huntingdon, $23,887; James J. Fresco, Newark, N. J., $48,398; Michael Fritz and James A. Frey, Philadelphia, Pa., $47,549; Saupp & Dhrew, Altoona, Pa., $32,389; Albrecht & Leader, Reading, Pa., $39,664. J. Murray Africa is City Engr.

LANCASTER, PA.—Bids for storm water sewer No. 3 were opened on April 21 by the Board of Public Service as follows: C. T. McCracken & Co., Columbus, Ohio, $37,943; E. H. Ames, Columbus, Ohio, $36,718; T. J. Backus Construction Co., Dayton, Ohio, $42,197; Paul & Kershner, Dayton, Ohio, $42,284. The bid of E. H. Ames is $5,000 below the estimate.

ZELIENOPLE, PA.—Bids are asked until 7 p. m., May 5, by the city for the construction of a 12-in. trunk sewer. F. W. Cunningham is Secy. Council.

WASHINGTON, D. C.—Bids were received as follows April 27 at the office of the Commissioners of the District of Columbia, for the construction of an east side intercepting sewer: (a) Warren F. Brenizer Co., Second and O Sts., S. E., Washington; (b) E. G. Gummel, 300 Rhode Island Ave., Washington, ordinary excavation, 5,800 cu. yds. (a) 65 cts., (b) $1; embankment in place, 1,200 cu. yds. (a) 30 cts., (b) 25 cts.; sewer brick masonry, 12 cu. yds. (a) $14, (b) $18; vitrified brick masonry, 125 cu. yds. (a) $21, (b) $23; concrete masonry "D" (700 cu. yds.) (a) $8.50, (b) $9; 12-in. diameter sewer pipe, 200 ft. (a) 70 cts., (b) $1; 6-in. pipe, 1,000 ft. (a) 35 cts. (b) 30 cts.; tunnel section, complete, (a) $2,900, (b) $3,700. Total, (a) $16,269, (b) $19,691.

NORFOLK, VA.—The City Council has authorized the sale of $50,000 bonds for surface drainage and extending the sewer system. W. T. Brook is City Engr.

SALEM, VA.—About $6,000 will be expended for the construction of pipe sewers in West Salem. Walter Watson, of Salem, is Engr.

MARTINSBURG, W. VA.—The H. C. BROOKS CO., of Fairmont, W. Va., has been awarded the contract to construct a sewer along Dyewater run, Martinsburg.

*YORKVILLE, S. C.—We are officially advised that the contract for furnishing pipe for the sewer system was awarded on April 22 by the city to the CHATTANOOGA S. P. & F. M. CO., Chattanooga, Tenn.

WOODLAWN (Birmingham post-office), ALA.—SULLIVAN & LONG, of Bessemer, Ala., have been awarded the contract by the city for the construction of sanitary sewers, at about $60,000. W. E. Perryman is Mayor.

FORT SAINT PHILIP, LA.—Bids are asked by Capt. Arthur Cranston, Q. M., U. S. A., until May 15, for the construction of a sewer system at the post.

LEXINGTON, KY.—The CENTRAL PLUMBING CO., of Lexington, was awarded the contract on April 18 by the city for the construction of the West Maxwell St. sewer.

VERSAILLES, KY.—We are officially advised that the following bids were received on April 20 by the Mayor and Council for the construction of a complete sewer system: Charles F. Fitch & Co., Louisville, Ky., $20,900; E. P. Porter, Clinton, Ky., $24,778; John B. McLean & Co., Newport, Ky., $23,500; The Schefold Co., New Albany, Ind., $20,500. Drake C. Naive is Clk. Council. The Holmboe Co., Louisville, Ky., are Engrs.-in-Charge.

*LOUISVILLE, KY.—E. T. SLIDER, of New Albany, Miss., has been awarded the contract by J. B. Jones & Co. for furnishing the material for the construction of Section B of the southern outfall sewer. It will require 17,000 yds. of gravel, 6,000 yds. of sand and 10,000 bbls. of Portland cement.

FOSTORIA, OHIO.—The Board of Public Service opened bids on April 21 for the construction of a sewer in Columbus Ave., as follows: J. J. Rumsey, $5,562; J. J. Peter, $5,580; Schouder & Nepper, Tiffin, Ohio, $5,610.

YOUNGSTOWN, OHIO.—Bids are asked until May 8 by the Board of Public Service for the construction of a sewer in a portion of Dewey St.

DAYTON, OHIO.—Bids are asked until noon, May 8, by W. A. Budroe, Clk. Bd. Pub. Serv., for constructing storm water sewers in various streets and alleys.

STRUTHERS, OHIO.—The State Board of Health has approved the plans prepared by George Montgomery, Youngstown, Ohio, for the construction of a sewerage system here.

NILES, OHIO.—The contract for the construction of brick and pipe sewers, bids opened on April 16, has been awarded by the Board of Public Service to JAMES KANE, of Youngstown, Ohio, at $11,649. James Tregaskis is Clk. Bd.

STEUBENVILLE, OHIO.—The Board of Public Service opened bids for the construction of the South St. sewer on April 20 as follows: FERRY & SONS, $10,501 (awarded contract); Logan D. Bird, $11,660; J. Van Meter & Co., $11,945; James A. Rippeth, $12,762. H. G. Simpson is Clk Bd.

NORMAL CITY (Muncie post-office), IND.—Bids are asked until May 5 by the Board of Town Trustees for constructing the main outlet sewer, consisting of 15, 18, 20 and 24-in. sewer pipe and brick sewer 2 × 3 ft. James G. Mendenhall is Town Clk.

DECATUR, IND.—Bids are asked by Thomas F. Ehinger, City Clk., until 6 p. m., May 5, for the construction of a retaining wall for the protection of the Monroe St. sewer.

EVANSVILLE, IND.—The Board of Public Works on April 18 ordered the construction of the Oregon St. sewer. Estimated cost, $4,086. Bids are asked until May 2.

KNIGHTSTOWN, IND.—Edward Payne of New Castle, Ind., submitted the lowest bid on April 17, for the construction of 4,310 ft. of sewer.

SAGINAW, MICH.—Bids are asked by the city until June 1 by the Board of Public Works for the construction of pipe sewers. Estimated cost, $25,000.

MENOMINEE, MICH.—N. J. MULHOLLAND & SON of Kaukauna, Wis., have been awarded the contract by the city for the construction of pipe sewers. F. S. Norcross is City Clk.

CAIRO, ILL.—The following bids were received on April 20 by the Board of Local Improvements for the construction of sewers in Division, Center and 21st Sts.: Roy L. Williams, Kalamazoo, Mich., $11,846; Hanes & Camery, Hannibal, Mo., $10,517; engineer's estimate, $10,539. Wilbur B. Thistlewood is City Engr.

BELOIT, WIS.—Bids are asked by the Board of Public Works until May 2 for the construction of storm sewers. Robert Caldwell is City Engr.

EAGLE GROVE, IOWA.—Bids are asked until 8 p. m., May 4, by the City Clerk, for the construction of an 8-in. sanitary sewer.

RED WING, MINN.—Bids are asked until 7.30 p. m., May 1, by the Board of Public Works for the construction of 500 ft. of a 3½ × 5½-ft. concrete sewer in Broad St., and 800 ft. of 6-ft. circular concrete sewer. C. H. Meyer is City Clk.

CLOQUET, MINN.—Bids are asked until noon, May 11, by the city for the construction of a sanitary sewer, 1,900 ft. long. Joseph Losiel is City Clk.

LAWRENCE, KAN.—Bids are asked until 5 p. m., May 4, by F. D. Brooks, City Clk., for the construction of main and lateral sewers in various streets.

WICHITA, KAN.—The following bids have been received by the Council for the construction of Sanitary Sewer No. 9: McIntyre & Tesse, $6,366; Baker & Chain, $6,310; Municipal Construction Co., $6,257. R. N. Dorr is City Clk.

OMAHA, NEB.—THE KATZ-CRAIG CONSTRUCTION CO. has been awarded the contract by the city for the construction of the main sewer in Bedford Place, 1,274 ft. long and 6¾ ins. in diameter, at $10,366.

FORT SMITH, ARK.—Bids are asked by A. Klingensmith, Arch., Illinois Bldg., Fort Smith until May 12, for the construction of a sewerage system at the new county hospital.

GOLDEN, COLO.—Bids are asked until 8 p. m., May 2, by the City Clerk for furnishing all materials, labor, etc., for constructing sanitary sewers and appurtenances in South Golden special sanitary sewer district No. 1. John F. Vivian is Mayor.

OAKLAND, CAL.—Bids are asked until 10 a. m., May 6, by the Board of Public Works for the construction of an intercepting sewer in Second St. Walter B. Fawcett is Secy. Bd.

SAN FRANCISCO, CAL.—Contracts for the construction of sewers have been awarded by the Board of Public Works as follows: To WILLIAMS & BELSER for sewer in 24th St., between Diamond and Castro Sts., at $13,464; Fremont St., between Market and Mission Sts., same firm, $1,549; First St., between Market and Mission Sts., same, $2,164.53; to FRED LOEFFER, for sewer in Steuart St., between Mission and Howard Sts., $2,225. Marsden Manson is City Engr.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—Only one bid, that of the PORTLAND STREET SPRINKLING CO., was received on April 20 by the City Council for street sprinkling for this season, and the contract will be awarded to this firm.

NEWBURYPORT, MASS.—THE CASHMAN BROS. CO. has been awarded the contract by the city for street sprinkling for the year at 11 cts. per lin. ft. furnishing the water.

BRISTOL, CONN.—The contract for street sprinkling in the borough has been awarded to the P. H. CONDON CO. at $175 per month. There was one other bidder, F. J. Emmett, at $200 per month.

HARTFORD, CONN.—The Board of Contract and Supply has awarded the following contracts: For collecting garbage for a term of five years, to the THOMAS STAFFORD CONTRACTING CO. at $11,540 per yr.; for collecting ashes and rubbish from the rear of houses, $21,124 a yr. for a period of five years, with the understanding that the contract may be changed to provide for the collection of ashes and rubbish from sidewalks, as heretofore, for $17,940 per yr.

ALLENHURST, N. J.—Bids are asked until May 1, by G. B. Cade, Boro. Clk., for the collection, removal and disposal of garbage for the year from May 9, 1908, to May 9, 1909.

CHARLEROI, PA.—Bids are asked until May 4 by Ira L. Nickeson, Boro. Clk., for the disposal of garbage for a period of one year.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

PORTSMOUTH, N. H.—FITZGIBON & CO., of Beverly, Mass., have been awarded the contract for paving the lower end of Market St. with granite at $3,450.

CONCORD, N. H.—FRED. E. ELLIS, of Melrose, Mass., has been awarded the contract for 4,975 ft. of trap rock pavement to be constructed here, at $5,645, and for constructing a macadam road in Pembroke, at $3,365. A. W. Dean is State Engr.

HARTFORD, CONN.—The contract for constructing 4,500 lin. ft. of gravel road in the town of Lisbon has been awarded to A. VITO, of Thompson, Conn., at $1.05 per lin. ft. Other bidders were: Pierson Engineering & Construction Co., Bristol, Conn., $1.35; W. B. Wilcox, Mystic, Conn., $1.43.

Bids are asked by the Board of Contract and Supply until 11 a. m., May 4, for resetting curb in Asylum St.

SAYBROOK (Deep River post-office), CONN.—The contract for the construction of 4,057 ft. of macadam-telford road, with rubble drain and cobble gutters, on the River Road in this town has been awarded to the PIERSON ENGINEERING & CONSTRUCTION CO., of Bristol, Conn. at the following prices: Road, $1.06 per lin. ft.; rubble drain, 40 cts. per lin. ft.; cobble gutters, 50 cts. per sq. yd.

WILLINGTON (South Willington post-office), CONN.—The contract for constructing 26,562 ft. of road has been awarded to the J. F. GILL CO., of Winter Hill, Mass., at $32,627. The contract embraces four sections of road, namely, Stafford road, 7,480 ft., $5,350; East Wellington road 14,350 ft., $19,720; new connecting road, 1,000 ft., $1,032; South Willington road, 3,700 ft., $6,525. Other bidders were: A. Brazos & Sons, Middletown, Conn., $33,258; A. Vito, Thompson, Conn., $32,950; T. F. Ley Co., Springfield, Mass., $44,000.

NEW YORK, N. Y.—Bids are asked until 3 p. m., May 7, by the Park Board for repairing asphalt roadway pavements where directed and for furnishing and delivering as required on Riverside Drive, between 72d and 122d Sts., 105,000 asphalt blocks. Henry Smith is Pres. Bd.

The following are the bids opened on April 17 by John F. Ahearn, Pres. Boro. of Manhattan, for repairing and maintaining sheet asphalt pavement on streets in the Borough of Manhattan on which original guarantee of maintenance has expired or will expire during the term of this contract, the engineer's estimate being as follows: (a) 150,000 sq. yds. asphalt pavement, including binder course; (b) 800 cu. yds. Portland cement concrete: Barber Asphalt Paving Co., 114 Liberty St., (a) $1.56, (b) $7.52; Sicilian Asphalt Co., 41 Park Row, (a) $1.60, (b) $6.50; Uvalde Asphalt Paving Co., 1 Broadway, (a) $1.49, (b) $6.75.

MADISON BARRACKS (Sackett's Harbor post-office), N. Y.—Specifications are on file at the office of Engineering News, New York, for the construction of sidewalks, macadam road, etc. Bids are asked until May 11.

ALBANY, N. Y.—The State Assembly on April 17 passed the bill appropriating $1,115,000 for the repair and maintenance of improved highways, and also $200,000 for the use of Frederick K. Skene, State Engr., in repairing and maintaining public highways.

ALBANY, N. Y.—The following bids were received on April 20 by the Board of Contract and Supply for the improvement of McCarty Ave., from the west line of South Pearl St. to the east line of Browne St.: Mulderry Bros., Albany, $21,935; John M. Holler, Albany, $22,125; Edward F. Dillon, Albany, $22,286; Michael F. Dollard, Albany, $19,762.

Bids for the improvement of Broad St., from the south line of Second Ave. to the north line of Seymour Ave., were received as follows: Michael F. Dollard, Albany, $7,983; John M. Holler, Albany, $9,088; Mulderry Bros., Albany, $8,143; Edward F. Dillon, Albany, $9,384. Walter Melius is City Engr.

HOBOKEN, N. J.—Bids were received on April 21 by the Common Council for repairing asphalted streets as follows: The Barber Asphalt Paving Co., 114 Liberty St., New York, $1.70 per sq. yd. for binder and surface; $2.23 per sq. yd. for binder, surface and Belgian block; Uvalde Asphalt Paving Co., 1 Broadway New York, $2.38 and $2.63 per sq. yd.

*SALEM, N. J.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of the Penn's Grove and Dancers Mill road, 3.2 miles long. Bids are asked until May 9.

NEWARK, N. J.—The Board of Public Works has awarded contracts for paving as follows: NEWARK PAVING CO., 133 First St., Boyd St., granite, $6,859; Brill St., brick, $25,118; Market St., granite, $9,679; Lockwood St., granite, $26,737; South St., brick, $14,162; FRANK W. SNYDER, Seymour Ave. with telford, $9,603; Shanley Ave. with telford, $9,402; PHILIP AND PETER JANARONE, Heller Parkway, with telford and brick, $16,481; JOHN F. SHANLEY, JR., Winans Ave., with brick, $14,842; Essex St., with brick, $5,288; VAN KEUREN & SONS, 18th Ave., with brick $32,750; Elizabeth Ave., with brick, $2,088.

WOODBURY, N. J.—Bids are asked by Robert C. Sparks, City Clk. until May 5, for paving on North and South Broad Sts., with Warren's bitulithic pavement, about 4,165 sq. yds. W. M. Carter, Woodbury, is Engr.

FREEHOLD, N. J.—Bids are asked until May 13 by the Board of Chosen Freeholders for the construction of a stone road in the Townships of Raritan and Mattawan, known as the Keyport and South Amboy Road 1.2 miles long. H. S. Sproul is County Engr. George W. Patterson, Jr., is Clk. Bd.

WILLIAM MUIRS, of Seabright, N. J., was awarded the contract on April 13 by the Board of Chosen Freeholders for constructing a stone road, 4,042 ft. long, at $8,613.

*INDIANA, PA.—Bids are asked until 7.30 p. m., May 4, by the borough, for about 18,846 sq. yds. brick paving with 11,390 cu. yds. grading separate, and 10,155 lin. ft. of cement curb. R. M. Mullen is Boro. Engr.

GREENVILLE, PA.—The MERGER CONSTRUCTION CO., of Greenville, has taken over the contract for macadamizing the state road between this city and Mercer, Pa., which was formerly awarded to the Hanna Construction Co.

HARRISBURG, PA.—The State Highway Department has awarded the contract for the construction of 8,000 ft. of road in Lawrence Township to the Clearfield County line, to KING & PHILLIPS, Clearfield, Pa., at $21,184.

BUNYEA & CO., Chester, Pa., have been awarded the contract for the construction of 21,000 ft. of state road in Bradford Township, Clearfield County, from the Lawrence Township line to Woodland, Pa., at $40,000.

INDIANA, PA.—Joseph W. Hunter, State Highway Comr., Harrisburg, Pa., has awarded the contract for 6,000 ft. of macadamized state road from the borough line to Johnston's cross roads and of Indiana, for a mile of similar road from the borough line toward Ernest, Pa., to W. C. Bennett, of Indiana, at $21,000.

LANDSDOWNE, PA.—Bids are asked until 8 p. m., May 1, by John W. Davis, Boro. Clk., for the construction of telford macadam pavement on various streets.

MONESSEN, PA.—Bids are asked until 4 p. m., May 7, by the Borough for the improvement of Ninth St. J. F. Irwin is Borough Engr.

*ALTOONA, PA.—The Board of Public Works opened bids on April 16 for paving ten miles of streets as follows: Hagaman, Miller & Hagaman, from $2.26 to $2.27 per sq. yd. for Clearfield brick with grout filler; $2.46 to $2.62 per sq. yd. for Metropolitan brick with asphalt filler; Bowman Bros., $2.49 to $2.95 for Porter and Clearfield brick with asphalt filler; $2.33 to $2.80 with grout filler. George W. Kuebler is Chn. Bd.

SWARTHMORE, PA.—PATRICK MALONEY, of Chester, Pa., has been awarded the contract by Swarthmore College for the construction of a college boulevard.

WILMINGTON, DEL.—Bids are asked until noon, May 5, by Francis A. Price, New Castle County, State Highway Comr., for the construction of a macadam road in New Castle County.

WASHINGTON, D. C.—Bids are asked until 2 p. m., May 14, by the Commissioners of the District of Columbia for furnishing during the year beginning July 1, 1908, and ending June 30, 1909, granite curbing, asphalt paving blocks, vitrified paving blocks, red sewer bricks, Portland cement.

MOORESVILLE, N. C.—Bids are asked until May 1 by D. C. Turner for grading three miles of road.

ASHEVILLE, N. C.—Bids are asked until May 4 by M. L. Reed, Chn. County Comrs., for grading about 7,200 ft. of the Charlotte St. extension.

CHARLOTTE, N. C.—The Charlotte Electric Railway, Light & Power Co., E. D. Latta, Pres., has awarded the contract to the ATLANTIC BITHULITHIC CO., Mutual Bldg., Richmond, Va., for laying about 1.4 miles of vitrified brick pavement in connection with new trackage at about $30,000.

ANNISTON, ALA.—J. S. CONNIFF & CO., of Montgomery, Ala., has been awarded the contract for constructing several blocks of sidewalks at 85 cts. per sq. yd.

WOODLAWN (Birmingham post-office), ALA.—C. M. BURKHALTER, of Birmingham, Ala., has been awarded the contract by the city for the improvement of various streets, at about $20,000.

OPELOUSAS, LA.—J. E. ALLEN, of Opelousas, has been awarded the contract for the construction of sidewalks at about $16,000.

JACKSON, TENN.—THE MIRACLE CONCRETE CONSTRUCTION CO., of Minneapolis, Minn., was awarded the contract on April 22 by the City Council for paving the first improvement district, at $13,204.

SWEETWATER, TENN.—DICKERSON, HARTSOOK & CO., Lenor City, Tenn., have been awarded the contract for constructing streets and sidewalks here.

MADISONVILLE, KY.—Hopkins County will have five roads macadamized, for which the sum of $10,000 has been appropriated.

PADUCAH, KY.—Bids are asked by the Board of Public Works, until May 12, for the improvement of Broadway, and Jefferson St., from Ninth to Eleventh Sts. Bids will be received on asphalt brick paving block and Warren's bitulithic paving, 10,320 sq. yds. L. A. Washington is City Engr.

CINCINNATI, OHIO.—Bids are asked until noon, May 7, by the Board of Public Service for the improvement of Bryant Ave., from the west curb line of Middleton Ave. to the east curb line of Whitfield Ave., by grading, setting limestone curbs and crossings, granite circular curbs, paving the gutters with granite, macadamizing the roadway and constructing the necessary basins and drains. John J. Wenner is Clk. Bd.

Bids are asked by the Board of County Commissioners until noon, May 8, for the improvement of Spring Grove Ave. Fred. Dreihs is Clk. Bd.

COLUMBUS, OHIO.—The Board of Public Service has awarded contracts for the improvement of Clarendon Ave., from Broad St. to Sullivan Ave. to W. H. LUCHTENBERG & CO., at $24,300, and for Midland Ave., from Ong St. to Sullivan Ave., to W. C. WOLLEY & CO., at $9,814. Henry Maetzel is Ch. Engr. Bd.

PAULDING, OHIO.—Bids are asked until 2 P. M., May 8, by the County Audr. for grading, draining, constructing culverts and macadamizing Wyatt Pike. C. L. Straw is Engr.

DAYTON, OHIO.—PETER O'MALEY and E. M. GEBHART were awarded the contract on April 18 by the County Commissioners for stone to be used in paving the Miamisburg and Centerville pike, at $1.53 per sq. yd. and 24 cts. for excavation.

TOLEDO, OHIO.—The Board of Public Service on April 16 awarded the contract for paving Hicks St., from Forest Ave. to Clinton St., with Logan block, to WATERS & TANSEY, at $18,577. Frank I. Consaul is Ch. Engr. Bd.

MARION, OHIO.—Contracts for street improvements were awarded by the Board of Public Service on April 21 as follows: High St., paving with sheet asphalt with concrete filling, to MAYER BROS., of Erie, Pa., at $12,000; North Main St., paving with Townsend block, to HOSTETTER & DAWSON at $5,417.

ROCKVILLE, IND.—Bids are asked by the Commissioners of Parke County until 1 p. m., May 5, for the construction of a gravel road in Wabash Township, known as the Hull and Phillips road. H. A. Henderson is County Audr.

PAOLI, IND.—Bids are asked by the Commissioners of Orange County until 2 p. m., May 5, for the construction of 7,319 ft. of gravel road in Orleans Township, known as the Orleans and Union Church road. Alvin B. Ham is County Audr.

BRAZIL, IND.—Bids are asked by the Commissioners of Clay County until 11.30 a. m., May 7, for the construction of 5,321 ft. of gravel road in Lewis Township; 10,557 ft. of gravel road in Jackson Township; and 5,425 ft. of gravel road in Posey and Brazil Townships. James L. Burnes is County Audr.

BLOOMFIELD, IND.—Bids are asked by the Commissioners of Greene County until 2 p. m., May 5, for the construction of gravel and macadam roads in various townships. Peter W. Cook is County Audr.

CONNERSVILLE, IND.—Bids are asked until May 5 by Jacob S. Clouds, City Clk., for 3,268 ft. of gravel streets and 10,000 sq. ft. of cement walks.

SHELBYVILLE, IND.—The Commissioners of Fayette, Franklin and Rush Counties received bids on April 18 for the construction of the county line pike on line between the counties as follows: AMOS U. STEVENS (awarded contract), $21,200; Wilkes & Martin, Shelbyville, $22,700; George R. Kelley, $22,700; William Avery, $20,766.

TERRE HAUTE, IND.—Five bids for the improvement of North 13th St. were received by the Board of Public Works on April 15. The bids follow: Foules & Fourbes, Section A, $40,682, B, $3,126; W. H. Harris, Section A, $43,000, B, $3,600; Keegan Bros., Section A, $42,900, B, $4,100; the Meredith Construction Co., Section A, $42,480, B, $3,750; Parish Bros., Section A, $47,890, B, $4,100.

GRAND RAPIDS, MICH.—The contract for paving Morris Ave. with macadam and East Bridge St. with Metropolitan block was awarded on April 16 by the Board of Public Works to KLOOTE & VANDERVEEN, 850 East Fulton St., Grand Rapids, at $38,900.

THOMAS G. McDERMOTT secured the contract for paving South Division St. with brick at $42,000. L. W. Anderson is City Engr.

COLLINSVILLE, ILL.—We are officially advised that O. T. DUNLAP, Edwardsville, Ill., was awarded the contract on April 22 by the city for paving district No. 1. A. C. Powell is Engr.

CAIRO, ILL.—The following bids were received on April 20 by the Board of Local Improvements for paving Poplar St.: Hanes & Camery, Hannibal Mo., $63,687; A. F. Franks, Jacksonville, Ill., $61,534; Roy L. Williams, Kalamazoo, Mich., $60,573; engineer's estimate, $60,860. J. B. Thistlewood is City Engr.

FREEPORT, ILL.—The Board of Local Improvements on April 22 awarded the contracts for paving the alley between Douglas Ave. and Exchange St., from Walnut to Adams Sts., and the alley between Galena and Spring Sts., from Walnut to Liberty Sts., to WILLIAM ASCHER, of Freeport, at $4,861 and $5,971, respectively.

DOWNERS GROVE, ILL.—Bids were opened on April 14 by the village for paving Belmont St. and Highland, Warren and Foote Aves. as follows: A. C. RUTLEDGE & CO., of Rockford, Ill., $27,249 (awarded contract); A. C. Schreiter & Co., Manitowoc, Wis., $32,938; Smith & Brown, Chicago, Ill., $28,911. J. S. Lozier is Village Engr.

ROCK ISLAND, ILL.—The Board of Local Improvements on April 20 awarded the contract for the Seventh Ave. paving, from 30th to 38th Sts., to THE McCARTHY IMPROVEMENT CO., of Davenport, Iowa, at about $36,300. Wallace Treichler is City Engr.

PEORIA, ILL.—The contract for paving Flora Ave. for several blocks was awarded on April 20 by the Board of Local Improvements to the CRESCENT CONTRACTING CO. at $5,100.

SPRINGFIELD, ILL.—THE CAPITAL CITY CONSTRUCTION CO., of Springfield, was awarded the contract on April 15 by the City Council for repairing the asphalt paving in Peoria at $1.85 per yd. There are about 2,500 sq. yds. of repair work to be done.

IOWA CITY, IOWA.—Bids are asked until 2 p. m., May 1, by O. J. Slater, City Clk., for the construction of brick crossings during the year ending May 1, 1909.

DAVENPORT, IOWA.—Bids are asked by the Board of Public Works until 2 p. m., May 5, for curbing, excavating and paving various streets. Thomas Murray is City Engr.

ALBERT LEA, MINN.—Bids are asked until 7.30 p. m., May 11, by the City Council for the construction of cement curb and drain and other improvements in Newton St. C. J. Dudley is City Clk.

SALINA, KAN.—JOHN [illegible]CHIE, of Topeka, Kan., was awarded [illegible] contract on April 20 by the city for [illegible]eet paving at about $110,000.

*SPRINGFIELD, MO.—B[illegible] are asked until 9 a. m., May 5, by H. G. [illegible]n, City Engr., for brick paving on various [illegible]reets.

TYLER, TEX.—The city [illegible] voted $10,000 of bonds for the paving of [illegible]cts.

ARDMORE, OKLA.—The [illegible] Council on April 20 passed a resolution [illegible]viding for the paving of 87 miles of str[illegible] City Engr. A. Dean is [illegible]

OLYMPIA, WASH.—RUT[illegible] HARTMAN, of Olympia, have been awa[illegible] the contract for the construction of Sta[illegible]oad No. 8 at $5,397 and State road No. 9 [illegible]5,543.

Road No. 11 was bid in [illegible] the Board of County Commissioners of [illegible]ane County, the board being the only one [illegible] submit bids. They were awarded the contr[illegible] at $13,000.

SEATTLE, WASH.—Bids [illegible] asked until May 2 by the Board of P[illegible] Works for grading, constructing sidew[illegible] and laying water-mains in Thorndyke [illegible] and other streets. List of approxima[illegible]antities are on file at the office of En[illegible]ring News, New York. R. H. Thomson is [illegible]ity Engr.

OAKLAND, CAL.—Bids ar[illegible]ed by the Clerk of the Board of Supervi[illegible] of Alameda County until 10 a. m., May 4, [illegible] macadamign Laurel Ave., from the m[illegible]ounty road leading from Oakland road fr[illegible]Hayward to San Lorenzo. John P. Cook is [illegible]. Bd.

RIVERSIDE, CAL.—WINTE[illegible] & SHULL were awarded the contract on [illegible]ril 14 by the City Council for improvi[illegible] Walnut St. at $8,714.

MERCED, CAL.—Bids are [illegible]d until 10 a. m., May 5, by the Board [illegible] Supervisors for macadamizing one mile of th[illegible] Merced and Turlock Road, in road distric[illegible] No. 3; one mile of Merced and Fresno Co[illegible]y line road in road district No. 2; and [illegible] mile of the 6-mile gra[illegible] in road district No. 1.

PETROLIA, ONT.—Bids are [illegible]sked by J. McHattie, Town Clk., until 6 p. m., May 15, for about 6,000 sq. yds. of vitrified brick pavement with cement curb on Main St.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

BUFFALO, N. Y.—An expenditure of over $900,000 for improvements in Buffalo and Western New York is contemplated by the New York Central & Hudson River R. R. Co. For work already done, contemplated, or under way in western New York, the following are among the larger appropriations: New boiler shops and crane at Depew, $55,000; improvements at Suspension Bridge, $280,000; block station, Broadway, Buffalo, $8,000; same, Grace St., Buffalo, $7,000; same, Black Rock, Amherst St., Buffalo, $12,000; automatic signals for belt lines, Buffalo, $36,000; block station, Harlem St., Buffalo, $12,000; interlocking plant at Emslie St., Buffalo, $45,000; boiler plant at West Lockport, $9,000; automatic signals from Lockport to Lockport Junction, $16,000; interlocking plant, West Batavia, $11,000; same at Depew, $28,000 coaling station, heating fans, etc., East Buffalo, $144,000.

NEW YORK, N. Y.—We are advised by Henry Holder, Jr., Arch., 242 Franklin Ave., Brooklyn, that he has prepared plans and will let contract at once for a 2-story and basement paper-box factory for F. C. Meyer, Glendale. Cost, $12,000.

PITTSBURG, PA.—The Pittsburg Brick Co. will build a manufacturing plant at a cost of $100,000. Walter Spellman, of Kansas City, Mo., is interested.

CONNELLSVILLE, PA.—The Aluminum Mfg. Co., of this city, has been formed with a capital stock of $30,000, and will build a plant at South Connellsville, Pa. Plans for the plant are being prepared by the Industrial Engineering Co., Drexel Bldg., Philadelphia, Pa. The company will manufacture aluminum from an aluminous clay. J. A. DeWitt and C. D. Schell, both of this city, are interested.

MEADVILLE, PA.—The WALTER G. HARPER LUMBER CO. has been awarded contract for constructing two buildings for the William Page Boiler Co. The mounting building, 50 ft. wide × 190 ft. long, will extend from the north end of the machine shop building towards South Main St., and will contain, in the street end, the company offices, 50 × 20 ft. The shipping building, which will have an elevated floor (car floor height) will be 60 ft. wide and 100 ft. long, and will face the private railroad switch, parallel with the street.

SCOTTDALE, PA.—Corrigan, McKinney & Co., Perry-Payne Bldg., Cleveland, O., have awarded the contract for the iron work on the new furnace and hot blast stopes at the plant here to the VARIETY IRON WORKS, Hamilton and East 40th Sts., Cleveland, O. The contract for the concrete foundations has been awarded to BAUGHMAN & NEIDMIER, of Youngstown, O. About 2,500 cu. yds. of concrete will be required. In addition to the construction of the furnace, which will have a capacity of 350 tons of pig iron a day, the contract calls for the erection and equipment of a boiler house, cast house, pumping station, haulage system and electric light plant. The improvements will cost $350,000. W. H. Everhart, of this city, is the Gen. Supt. of the plant.

CLARION, PA.—The Pearl Glass Co., whose plant was destroyed by fire a short time ago, has decided to rebuild the entire plant at once. The plant will cost about $75,000, and will be built of brick and concrete, as nearly fireproof as possible.

MILTON, PA.—The iron works of the Milton Mfg. Co. were destroyed by fire at a loss of $250,000. It will be rebuilt as soon as plans can be prepared and contracts awarded. Elmer and George Shimer are at the head of the company.

CONWAY, PA.—Plans for the enlargement of the Conway yards and shops of the Fort Wayne division of the Pennsylvania Lines west of Pittsburg, are in the hands of the executive officials. Authority was given to the engineering department more than a year ago to prepare plans for new work to cost about $500,000. Thomas Rodd, Pittsburg, is Ch. Engr.

LAWRENCEVILLE, VA.—The Lawrenceville Lumber & Box Co., recently organized with $25,000 capital stock, will establish a plant to manufacture lumber into building materials and box shooks; output, 25,000 to 50,000 ft. daily. The company will erect a building, 50 × 120 ft., frame, with galvanized roof. W. J. Sledge is Pres. and Treas., W. S. Peebles Vice-Pres. and George W. Wesson, Secy. and Gen. Mgr., P. O. Box 197, Lawrenceville.

HORSE SHOE, N. C.—The French Broad Mfg. Co. lately incorporated, purposes to build a mill for the production of fine or high grade cotton yarns. The plant is to be located at Horse Shoe, N. C., near Hendersonville. It is reported that 10,000 spindles will comprise the equipment. J. G. Hood, of Charlotte, N. C., will be interested in the management.

CHARLOTTE, N. C.—A cotton factory will be established at Charlotte for the manufacture of fine combed yarns, numbers 60 to 100. Among those interested are the following: Thomas S. Lillard, Secy. and Treas. of the Fidelity Mfg. Co.; W. W. Hapgood, H. C. Henderson, W. A. Watson, Paul Chatham, H. T. Sheerill, J. L. Sexton, D. H. Anderson, John R. Pharr and others, of Charlotte. The company will be incorporated with a capital stock of $250,000 and is to begin operations with $125,000 paid in. Its incorporation will be arranged for the near future, and then the stockholders will meet to effect permanent organization. The equipment of the mill will comprise 5,000 spindles and accompanying apparatus, and the plans and specifications are to be given consideration soon.

ATLANTA, GA.—James P. Field, 24 South Broad St., Atlanta, advises us that he proposes to buy land containing pulp wood, and if he does he will construct a pulp mill thereon.

ANNISTON, ALA.—The Woodstock Iron Works is about to begin reconstruction of Furnace No. 2 and it expects to build foundry later. Probable expenditure, $150,000. James M. Barr is Pres., Atlantic Trust Bldg., Norfolk, Va.

RICHBURG, ALA.—It is probable that the Henderson-Boyd lumber mill will rebuild the dry kilns and planing mill, destroyed at a loss of about $100,000.

FOSTORIA, OHIO.—The Fostoria Provision Co. has been incorporated by Henry E. Bowersox and Adam Bowersox of Toledo, August Fliechtner, of this city, and E. D. Latimer and Alex. T. McCrea, of Cleveland. This company will operate a packing house industry in this city, and will manufacture ice for its own and outside use. Work will be commenced on the building of the plant as soon as it is possible. Capital, $100,000.

NORWOOD (Cincinnati post-office), OHIO.—The Directors of the U. S. Printing Co., Sixth St. and Eggleston Ave., Cincinnati, will erect a printing establishment at Norwood. The plant will be of concrete construction, 300 × 380 ft., and work will be commenced as soon as possible. The improvement will cost about $350,000.

CINCINNATI, OHIO.—The Joseph C. Butler Estate, Commercial Tribune Bldg., will build a 5-story factory structure capable of bearing 350 lbs. to the sq. ft. The improvement will be built on the site of the warehouse on the north side of Sixth St. east of Carr St., which was destroyed by fire several weeks ago. Plans for it are being prepared by W. W. Franklin, Arch., Glenn Bldg. It will be 50 × 100, of brick, iron and mill construction.

YOUNGSTOWN, OHIO.—The Lake Shore & Michigan Southern Ry. Co. will build a round house at McGuffey St., on the site of the old one. The new building will contain 12 or 15 stalls. In addition, an air brake plant and a coal chute for coaling the engines will be installed in the yards at McGuffey St. S. Rockwell, Cleveland, Ohio, is Ch. Engr.; L. G. Parish, Cleveland, is Supt. of Motive Power.

COLUMBUS, OHIO.—Bids are asked until 10 a. m., May 4, by Capt. H. J. Hirsch, Q. M., Columbus Barracks, for constructing and installing, complete, a refrigerator in the kitchen wing of administration and mess building No. 51 at Columbus Barracks.

LAGRANGE, IND.—The Home Grain Co., recently incorporated, will build and equip several grain elevators. Charles E. Sears and C. G. Egly are Dirs.

LINTON, IND.—The Linton Foundry Co. will receive bids for construction of an addition to the present foundry so as to double its capacity.

CRAWFORDSVILLE, IND.—Joseph Goldburg states he will ask for bids soon for construction and equipment of a fertilizer plant in this city.

ANDERSON, IND.—The Jenney Electric Mfg. Co., Indianapolis, has ordered plans for the construction of a new plant in Anderson. Charles D. Jenney is Pres.

TIPTON, IND.—J. N. Russell will receive bids for erection and equipment of an ice plant.

MUSKEGON, MICH.—Plans are being prepared for a 2-story cement fireproof laundry building for the Muskegon Laundry Co. Cost, $10,000.

DETROIT, MICH.—Baxter & O'Dell, Archs., Hammond Bldg., have completed plans and specifications for a factory building for the Stecker Electric & Machine Co., 32 Larned St. East, to be built on the east side of Bates St., south of Woodbridge St. The building will be 50 × 91 ft., with three stories and basement, of pressed brick with stone front, and will cost about $15,000. It is to be completed ready for occupancy in four months.

FREEPORT, ILL.—Urius M. Dustman, Arch., 118 Stephenson St., Freeport, has prepared plans for a 2-story vinegar factory, 65 × 65 ft., and a storage 1-story, 20 × 122 ft. E. W. Miller is in charge.

WAUPUN, WIS.—Bids are asked until noon, May 5, by the State Board of Control, Capitol Bldg., Madison, Wis., for construction of a binder twine facory at the Wisconsin State Prison, Waupun, Wis., in accordance with the plans and specifications prepared by H. C. Koch & Son, Archs., Wells Bldg., Milwaukee, Wis. Noted on March 12 and 26.

SHEBOYGAN, WIS.—The Vollrath Mfg. Co. will build a brick factory and warehouse, 60 × 150 ft., and 60 × 300 ft., respectively.

MASON CITY, IOWA.—E. R. Bogardus, Arch., 219 North Main St., has prepared plans for a 2-story and basement binding plant for Ferguson & Chassell, to cost $15,000.

SIOUX CITY, IOWA.—FRANK BURNESS, of Omaha, Neb., has secured contract to erect an addition to the plant of the Cudahy Packing Co., of this city.

MINNEAPOLIS, MINN.—G. T. HONSTAIN has secured the contract to erect for the Northwestern Consolidated Milling Co., Guaranty Loan Bldg., an elevator and working house to cost about $250,000. The building is to be of brick with square bins and have a capacity of 1,000,000 bushels.

FORT WORTH, TEX.—Arrangements have been completed and work on the proposed packing plant at Fort Worth will begin immediately. This establishment will call for the expenditure of about $500,000 and will be owned by Armour & Co., Chicago, Ill.

COLORADO, TEX.—The West Colorado Land Co. will establish a plant, construct buildings, and install machinery for a proposed mill for cotton sheeting. The buildings will consist of one 2-story, 231 × 76 ft., one 2-story, 12 × 20 ft., one 2-story, 10 × 10 ft., and 20 dwelling houses 50 × 100 ft. The power plant will have a capacity of 350 HP. B. M. Garrett is Pres.

TEXAS CITY, TEX.—H. D. Moore, of Texas City, E. N. C. Sanctuary and W. T. Armstrong, of Galveston, Tex., are interested in establishing an oil refinery here, to cost about $750,000.

SNYDER, OKLA.—The Snyder Ice & Storage Co., recently incorporated, will install a 12-ton ice plant and will erect building 52 × 74 ft. at a cost of $35,000; cost of machinery, $12,000. It is stated that Oles Stofer is interested.

BELLINGHAM, WASH.—A. Cole and F. X. Cramer have purchased four lots at corner of Orleans and Iowa Sts. and will erect a factory for manufacturing bed springs, mattresses and other articles.

MONTREAL, QUE.—The Marvel Street Hydrant & Novelty Co. will erect a machine shop and foundry here.

NEW WESTMINSTER, B. C.—The British Columbia Electric Ry. Co. has awarded the contract for the proposed extension of its car shops to W. W. FORRESTER, of this city. Estimated cost, $20,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

FIRE APPARATUS.—Richmond, Ind.—The City Council will purchase a fire engine, an aerial truck and other apparatus.

DITCH.—Kokomo, Ind.—Bids are asked until May 6, by the Commissioners of Howard County, for constructing the Cook Ditch.

WAGON SCALES.—New York, N. Y.—Bids are asked by Patrick Jones, Supt. School Supplies, Dept. Education until noon, May 8, for eight wagon scales.

DITCH.—Olivia, Minn.—Bids are asked until May 5 by H. J. Lee, County Audr., Olivia, for digging and constructing judicial ditch No. 2. Estimated cost, $26,719.

DREDGING.—Boston, Mass.—Bids are asked by Lieut.-Col. Edw. Burr, Corps Engrs., U. S. A., Boston, until noon, May 21, for dredging in Malden River.

FENCE.—Edmonton, Alta.—The contract for fencing the Buffalo Park, 122,000 acres, on Battle River, has been awarded to the IDEAL FENCING CO., of Winnipeg, Man.

DITCH.—Crookston, Minn.—Bids are asked until May 6 by N. A. Hoffard, County Audr., Crookston, for digging and constructing county ditch No. 72. Estimated cost, $16,821.

FIRE APPARATUS.—Ft. Wayne, Ind.—Bids are asked until May 12 by the Board of Public Safety for furnishing one first size fire engine equipped with a 2 and 3-horse hitch-up.

WHARF.—Fort Wetherill, R. I.—Bids are asked until 10 a. m., May 2, by Capt. Willis C. Metcalf, Q. M., U. S. A., Newport, for the construction of an addition to the wharf at Fort Wetherill.

PILE DOCK.—Galveston, Tex.—Bids are asked at the office of F. P. Sargent, Comr.-Gen. of Immigration, Washington, D. C., until May 14, for the construction of pile dock at Pelican Spit, in harbor of Galveston.

*WHARF.—Boston, Mass.—Bids are asked until 10 a. m., June 1, by Capt. Ira L. Fredendall, Const. Q. M., 263 Summer St., for the construction of a wharf at Fort Standish, Lovell's Island, Boston Harbor, Mass.

CRUSHED ROCK.—Santa Cruz, Cal.—Bids are asked by H. H. Miller, County Clk., until 10.30 a. m., May 4, for furnishing the County of Santa Cruz with 3,000 tons, more or less, of crushed rock delivered on the Riverside Road.

*PIER REPAIRS.—Michigan City, Ind.—Bids are asked by Col. W. H. Bixby, Corps Engrs., U. S. A., Chicago, until 10 a. m., May 15, for repairs to piers in Michigan City Harbor.

JETTIES.—Ocean Park, Cal.—Only one bid was received on April 6 by the Board of City Trustees for construction of three jetties south of Center St., submitted by A. H. CALKINS & CO., at $10,500. They were awarded contract.

DITCH.—Wyoming, Minn.—I. M. BANTA, of Wyoming, has secured contract for a drainage ditch seven miles long and 12 to 16 ft. wide, to run through the Townships of Independence, Orono, Medina and Minnetrista, at about $9,113.

WALL, PIERS.—Boston, Mass.—Bids are asked by the Boston Transit Commission until noon, May 7, for building a reinforced concrete wall and foundation piers under the City Hospital Relief Station, Haymarket Sq. B. Leighton Beal, Secy., 15 Beacon St.

DITCH.—Champaign, Ill.—Bids are asked until April 30 by the Commissioners of Embarras River Special Drainage District, at the office of Ray & Robbins, attorneys, Champaign, for construction of a ditch 3,100 ft. long in Sub-Dist. No. 17.

TILE DRAIN.—Hampton, Iowa.—Bids were received on April 24 for a tile drain in Marion Township. Frank G. Luke, County Audr. Contract was awarded to the LANE-MOORE LUMBER CO., Blairsburg, Iowa, at $4,012. G. L. Mechem, Clarion, Iowa, is Engr.

MONUMENT.—La Fayette, Ind.—The Battle Ground Monument Commission, A. A. Jones, Chn., has awarded contract to the McDONNELL & SONS CO., 858 Main St., Buffalo, N. Y., for construction of a granite monument on the Tippecanoe Battle Field, for $24,500.

FIRE HOSE.—New York, N. Y.—Bids are asked until 10.30 a. m., May 6, by Nicholas J. Hayes, Fire Comr., for furnishing and delivering 7,000 ft. of 3½-in. rubber fire hose for Borough of Manhattan. Also for furnishing and delivering 3,000 ft. of 3½-in. rubber fire hose for Borough of Brooklyn.

BULKHEAD, PIER.—Edgewater, N. J.—Bids were received by Geo. A. Carleton, Mayor, on April 21 for construction of a pile crib bulkhead; also for a pile crib bulkhead and pier. Watson G. Clark, Boro. Engr., 1123 Broadway, New York City. Bids were rejected as they exceeded the appropriation.

SEAWALLS.—North Scituate, Mass.—Bids were received at the office of the Board of Harbor and Land Commissioners at Boston (Frank W. Hodgdon, Ch. Engr.), on April 17 for building concrete seawalls at North Scituate. Contract was awarded to McHALE & PERKINS, 930 Old South Bldg., Boston, at $4.65, $4.60 and $6.60 per lin. ft.

*DIKE.—Boston, Mass.—Bids were received on April 24 by the Board of Harbor and Land Commissioners, State House, Boston, for building an earthen dike with timber corewall and sluices across the mouth of Herring River at Wellfleet. Frank Hodgdon is Ch. Engr. Contract was awarded to THOMAS & CONNOR, Middleboro, Mass., at $16,250.

DOCK.—Cleveland, Ohio.—Contract was let on April 17 by the Upson Nut Co., Garfield Bldg., Cleveland, for a 1,000-ft. reinforced concrete dock along the Cleveland River front at the plant of the Central blast furnace recently acquired by that company, to the GREAT LAKES DREDGE & DOCK CO., Chamber of Commerce Bldg. Chicago, Ill. The dock will cost $75,000 when completed.

*FOUNDATION PIERS.—Wilmington, Del.—Bids were received as follows on April 23 by the Light-House Engineer, Wilmington, for the erection of foundation piers for the tower at Bellevue Range Rear Light-Station, Del.: Tatnall-Brown Co., Wilmington, Del., $2,350 (recommended for acceptance); Franklin K. Wills Co., Wilmington, Del., $2,685; Wm. E. Warren, Mt. Vernon, N. Y., $3,173; Capt. J. J. Williams & Co., Chester, Pa., $5,670.

WHARF, CAUSEWAY.—New Orleans, La.—Bids were received by Capt. Arthur Cranston, Q. M., U. S. A., on April 20 for constructing wharf and causeway at Fort St. Philip, La., as follows: Doullut & Williams, Macheca Bldg., New Orleans, $7,981; Penn Bridge Co., New Orleans, $12,400; Chas. R. Corbett, New Orleans, $10,000; Southern Engineering & Construction Co., New Orleans, $10,950; C. W. Wood, New Orleans, $11,673; General Contract Co., New Orleans, $8,497.

U. S. POSSESSIONS AND CUBA.

CROSS TIES.—Panama.—Bids are asked by F. C. Nordsick, Asst. Pur. Agt., Panama R. R. Co., 24 State St., New York, until 10.30 a. m., May 4, for furnishing cross ties to this company.

CEMENT.—Panama.—The Isthmian Canal Commission, which recently postponed the opening of bids for 4,500,000 bbls. of Portland cement from April 13 to May 1, announces a further postponement until 10.30 a. m., June 1. Bids will be received until that time at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C.

ROOFING.—Panama.—Bids were received as follows, April 20, at the Isthmian Canal Commission, Washington, for furnishing 60,000 sheets galvanized-iron corrugated roofing and 30,000 lin. ft. galvanized ridging: U. S. Steel Products Export Co., 24 State St., New York, $52,998, $62,558, 90 days; Youngstown Iron & Steel Refining Co., Youngstown, Ohio, $67,569, 100 days; Youngstown Sheet & Tube Co., Youngstown, Ohio, $50,996, 50 days.

CAPITOL PLANS.—Porto Rico.—The government commission appointed to select plans for the capitol at San Juan, Porto Rico, has awarded the first prize to Frank E. Perkins, an architect, 1133 Broadway, New York. The building, which is to be of reinforced concrete, decorated with marble and bronze, is designed in the Greek Doric style throughout, with the exception of the low dome. The slight elevation of the dome was decided upon by Mr. Perkins because of the effect the tornadoes of the island might have on a loftier structure. Another concession to the climate is the fact that there will be no glass in the building, the windows being closed by shutters. The capitol will house the Executive Council, the House of Delegates and the Supreme Court. An appropriation of $300,000 has been made for it.

ENGINE AND GENERATOR.—Panama.—Award has been made by Col. H. F. Hodges, General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for (a) one cross-compound four-valve Corliss, non-condensing engine and (b) one direct-connected 400-KW., three-phase, 2,300-volt generator, to the BALL ENGINE CO., Arcade Bldg., Philadelphia, at $10,500 for (a) and to the GENERAL ELECTRIC CO., Schenectady, N. Y., for (b), at $4,845.

CIVIL SERVICE EXAMINATIONS.

SUBINSPECTOR OF BUILDING CONSTRUCTION—N. Chicago, Ill.—The Navy Department has announced an examination of applicants at the Federal Building, Chicago, Ill., on May 8, for the purpose of establishing an eligible register of subinspectors of Building Construction work. Detailed information concerning the examination is contained in Navy Yard Order No. 805, a copy of which is on file at the office of Engineering News, New York. The pay is $4 to $5.04 a day for first grade positions; $2.48 to $3.52 a day for second-grade positions. Applications will be addressed to the Commandant, Naval Training Station, Great Lakes, North Chicago, Ill., on or before May 6. Truman H. Newberry is Asst. Secy.

STRUCTURAL STEEL DRAFTSMAN—New York, N. Y.—The 25 candidates (out of 102) who passed highest the examination held on Dec. 17 for the position of Structural Steel Draftsman were:

Sears, Horace H., No. 9 Highland Ave., Jamaica, N. Y., 93.40.
Higley, Anson H., State Engineer's office, Albany, N. Y., 92.80.
Ely, John A., Jr., No. 21 East 55th St., 89.60.
Smith, Calvin D., No. 201 West 145th St., 88.70.
Dulude, Frederick J., No. 375 Jefferson Ave., Brooklyn, 87.60.
Griest, Maurice E., No. 521 West 111th St., 86.40.
Wheeler, Ray M., Delmar, Albany County, N. Y., 86.30.
McDowell, Walter St. L., No. 513 West 176th St., 86.10.
Ward, Charles A., Jr., No. 569 Chauncey St., Brooklyn, 85.90.
Altdoerffer, Jay H. B., No. 184 North Allen St., Albany, N. Y., 85.90.
Rick, Edward H., No. 672 Union Ave., 85.70.
Friedland, Jacob M., No. 257 13th St., Brooklyn, 85.60.
Foster, Reginald G., No. 554 West 114th St., 85.50.
Belmont, Franklyn E., No. 159 West 83d St., 85.40.
Cromer, August B., No. 656 Walnut St., Elmira, N. Y., 85.30.
Woods, John, Spuyten Duyvil, The Bronx, 85.00.
Quinby, John H., No. 463 West 115th St., 85.00.
Pitney, Frederick G., No. 39 Hatfield Pl., Port Richmond, S. I., 84.90.
Casey, James J., No. 1654 Weeks Ave., The Bronx, 84.60.
Bartholomew, John, No. 23 South Pearl St., Albany, N. Y., 84.60.
Slade, Samuel, No. 416 Grand St., 84.50.
Huff, Chauncey F. H., Jr., No. 2106 Bathgate Ave., The Bronx, 84.10.
Goldwater Sidney J., No. 302 Alexander Ave., The Bronx, 84.00.
Karr, Corydon P., No. 70 Fifth Ave., 84.00.
Day, Ernest B., No. 181 Joralemon St., Brooklyn, 84.00.

RODMAN—Albany, N. Y.—The persons who passed highest on the recent State Civil Service Examination for Rodman, held March 7, at salary of $3.56 to $4.00 a day, are as follows, there being 104 names on the entire list:

Kenneth B. Turner, 125 Quarry St., Ithaca, N. Y., 97.36.
Carl O. Ullrich, 517 East Buffalo St., Ithaca, N. Y., 95.06.
Erwin H. Hussey, 138 Twelfth St., Long Island City, N. Y., 91.86.
William J. Rapp, 105 Delaware Ave., Albany, N. Y., 90.68.
Arthur Kraus, 508 East 89th St., New York City, 89.8.
Harry Nathan, 5 East Main St., Amsterdam, N. Y., 89.54.
Frank R. Stevens, Psi Upsilon House, Schenectady, N. Y., 89.3.
Louis B. Puffer, 10 First St., Troy, N. Y., 89.02.
Edgar K. Ruth, 201 Eighth St., Troy, N. Y., 88.8.
Barclay T. Kenyon, 1522 Third Ave., Watervliet, N. Y., 88.6.

ELECTRICAL ENGINEER—Albany, N. Y.—Thirty-one persons passed the State Civil Service examination for Electrical Engineer for the Public Service Commission, first district, salary $2,000—$2,800 per year. The first ten on the list are:

Warren R. Thompson, 33 West 82d St., New York, 91.15.
Valentine C. Wynne, 858 Madison Ave., Albany, N. Y., 87.2.
John N. Dodd, 1101 Nott St., Schenectady, N. Y., 85.1.
John H. Barnard, U. S. S. Granite State, Foot West 97th St., New York, 84.65.
Townsend Walcott, 245 Carroll St., Brooklyn, N. Y., 84.55.
Lensey R. Nichols, 219 Ave. A, Schenectady, N. Y., 83.6.
George H. Throop, 215 West 108th St., New York, 83.1.
Irving R. Ely, 291 Riverdale Ave., Yonkers, N. Y., 82.45.
Randolph H. Nexson, Hotel Margaret, Brooklyn, N. Y., 82.45.
George I. Rhodes, 36 East 28th St., New York, 82.3.

For other Proposal Advertisements see pages 43, 44, 46, 47, 48, of Advertisements and Construction News page 150.

GRADING AND PAVING.

Altoona, Pa.

Sealed proposals will be received by the Board of Public Works of the city of Altoona, Pa., and publicly opened at 8 o'clock Thursday evening, May 7, 1908, for the grading and paving with vitrified brick on concrete foundation and maintenance under the several ordinances duly passed and approved, together with the setting and resetting of curbing where required of the following highways in the city of Altoona, Pa.:

Ordinance	Bond.	Location.
1920—2196	$10,000	7 ave., 17 st. to city line
1921—2197	2,000	8 ave., 24 st. to 26 st.
1922—2198	13,000	6 ave., 15 st. to city line
1923—2189	1,000	Howard ave., 2 st. to 3 st.
1924—2202	2,000	5 ave., Lloyd st. to 2 st.
1925—2203	1,500	6 st., 3 ave. to 5 ave.
1926—2204	3,000	4 ave., 3 st. to 6 st.
1927—2205	7,000	3 st., Bell ave. to Bellwood ave.
1941—2206	2,000	16 ave., 12 st. to 14 st.
1942—2207	1,500	17 ave., 13 st. to 14 st. and 14 st., 16 to 17 aves.
1943—2208	5,000	1 ave., 5 st. to 10 st.
1944—2209	5,000	2 ave., 7 st. to 12 st.
1945—2210	2,000	1 ave., 3 st. to 5 st.
1946—2211	1,000	Crawford ave., 4 to 5 sts.
1947—2212	1,000	3 ave., 5 st. to 6 st.
1949—2214	2,000	26 st., Maple to P. R. R.
1950—2215	2,500	1 st., 1 ave. to 6 ave.
1951—2216	3,000	4 ave., Lloyd to 3 sts.
1964—2217	1,000	3 ave., 3 st. to 4 st.
1969—2218	700	15 st., 10 ave. to 11 ave.
1970—2219	1,000	W. Chestnut ave., 25 st. to 26 st.
1971—2220	3,000	3 ave., Lloyd to 3 sts.
1972—2221	6,000	22 ave., 3 st. to 9 st.
1984—2222	500	13 alley, 12 st. to 13 st.
1985—2223	1,000	Howard ave., 1 to 2 sts.
1986—2224	1,000	3 ave., 4 st. to 5 st.
2016—2225	1,000	5 ave., 11 st. to 12 st.
2017—2226	1,000	3 ave., Kettle to Lloyd
2055—2227	2,000	22 ave., 9 st. to 11 st.
2069—2228	500	12 alley, 11 st. to 12 st.
2070—2229	1,000	14 ave., Washington to 18 st.
2073—2230	500	5 ave., 9 st. to 10 st.
2116	2,500	2 st., 2 ave. to 7 ave.
2127	1,000	6 alley, 11 st. to 12 st.
2128	4,000	8 st., Green to Willow
2134	5,000	Union ave., 8 ave. to 27 st.
2162	6,000	12 st., 1 ave. to 9 ave.
2166	1,000	16 ave., 11 st. to 12 st.
2307	500	18 ave., 10 st. to 12 st.
2308	500	8 alley, 5 st. to 6 st.
2309	500	7 alley, 19 st. to 20 st.
2340	500	17 st. alley, Schoenfelt to 9 ave.
2346	3,000	9 st., 16 ave. to 20 ave.
2353	3,000	2 ave., 12 st. to 15 st.
2363	7,000	Willow ave., 2 to 9 sts.
2364	500	W. Chestnut ave., 23 to 25 sts.
2374	4,000	11 st., 3 ave. to 9 ave.
2375	1,000	3 ave., 8 st. to 9 st.
2376	1,500	15 st., Bell to 1 aves.
2377	2,000	N. 9 ave., 17 to 19 sts.
2403	3,500	24 st., N. 9 to 4 aves.
2473	200	17 st. alley, Union to 11 ave.

All bids must be strictly in accordance with instructions to bidders and specifications, which may be examined at the office of the City Engineer and upon blanks furnished for that purpose by the City Engineer and be accompanied by a certified check for one-fourth of the amount of bond called for in each ordinance, or the same amount in cash, to guarantee the signing of the contract or contracts and the furnishing of required bonds, if contracts be awarded to the bidder.

Bids to be addressed to "Chairman Board of Public Works," and marked "Proposal for Street Paving," and must reach the City Engineer's office before 6 o'clock

THURSDAY EVENING, MAY 7, 1908.

The Board reserves the right to reject any or all bids.

J. B. ANDREWS,
Chairman.
GEORGE W. KUEBLER.
GEORGE A. KLESIUS.
Commissioners, Board of Public Works.
18-2t

PAVING.

Hornell, N. Y., April 28, 1908.

Sealed proposals will be received by the Board of Public Works at the office of the City Clerk of Hornell, N. Y., until 3 P. M., Tuesday, May 19th, 1908, for grading, curbing and paving with vitrified brick or block on concrete foundation, Pleasant Street and portions of Genesee, East Main and North Main Streets.

Plans and specifications may be seen at the office of the Board of Public Works where proposal sheets may be obtained by bidders.

Approximate quantities are:

Pavement, 13,160 square yards.
Curbing, 7,660 lineal feet.

FREDERIC LEACH,
18-1t. Supt. Public Works.

TO CONTRACTORS.

Chicago, Ill.

Sealed Proposals addressed to the Board of Trustees of the Sanitary District of Chicago and endorsed "Proposals for the equipment of the eight-track bridge at Campbell Avenue" will be received by the Clerk of the said Sanitary District at the offices of the said district on the 15th floor of the American Trust Building, Chicago, Illinois, until 12 m., Standard time, on Wednesday, May 27, A. D. 1908, and will be publicly opened by the Board of Trustees at a meeting to be held on that day, or the first meeting thereafter.

The work for which said tenders are invited consists of supplying all materials and labor, excepting for electrical work and interlocking, necessary for the equipment of the eight-track bridge for the Pittsburg, Cincinnati, Chicago and St. Louis Railway Company, the Chicago Terminal Transfer Railroad Company and the Chicago Junction Railway Company, crossing the main drainage channel of the Sanitary District of Chicago at Campbell Avenue, Chicago, Ill., so that said bridge may be operated as a movable bridge to allow navigation in said channel.

Said bridge consists of four parallel double-track through-arch spans of two leaves each, which are so constructed that by the addition of said equipment consisting of track girders, segmental girders, counterweight, machinery and other necessary work, the bridge may be operated as a rolling lift bridge of the Scherzer type.

The said work is to be performed in accordance with plans, specifications and contract furnished by the Sanitary District of Chicago, which plans, specifications and contract may be obtained upon application at the said office of the said district.

Each bid must be accompanied by a certified check or cash to the amount of twenty thousand ($20,000.00) dollars. All certified checks must be drawn on some responsible bank doing business in the City of Chicago, and shall be made payable to the Clerk of the Sanitary District of Chicago. Said amount of twenty thousand ($20,000.00) dollars, deposited with bids, shall be held by the Sanitary District until all of the respective bids for said structure have been canvassed and the contract awarded and signed. The return of said check or cash to the bidder to whom said work shall have been awarded will be conditioned upon his appearing within ten (10) days after receiving notice of such award, with bondsmen, and executing a contract with the Sanitary District for the work so awarded, and giving a bond, satisfactory to the Board of Trustees, for the fulfillment of said contract for the equipment of said bridge in the amount of one hundred thousand ($100,000.00) dollars.

A deposit of fifteen ($15.00) dollars will be required for each set of plans and specifications taken out, said sum of fifteen ($15.00) dollars deposited, to be refunded by said Sanitary District upon the return of said plans and specifications to said district.

All bids must be upon blank forms furnished by the Sanitary District.

Bidders are required to state in their bids their individual names and places of residence in full.

The said Board of Trustees reserves the right to reject any and all bids.

THE SANITARY DISTRICT OF CHICAGO,
By ROBERT R. McCORMICK,
President of its Board of Trustees.

Attest:
I. J. BRYAN, Clerk.
Chicago, May 1, 1908. 18-1t

BRIDGE WORK.

Bridgeport, Conn.

Bids will be received until 12 o'clock noon, May 7th, for furnishing and erecting new floor beams on the Stratford Ave. Draw Bridge at Bridgeport, Conn. Plans and specifications on file at the Director of Public Works Office, City Hall. We reserve the right to reject any and all bids. Certified check for $500 to accompany bids. 18-1t

PAVING.

Indiana, Pa.

Sealed proposals will be received by the Borough of Indiana, Pa., on Monday, May 4th at 7.30 P. M., for approximately 18,846 square yards brick paving with 11,390 cubic yards grading separate and 10,155 lineal feet of cement curb. Certified check for $500, payable to Jno. B. Taylor, Treasurer. The Borough of Indiana reserves the right to reject any or all bids.

R. M. MULLEN,
18-1t Boro. Engineer.

BRIDGE.

Culpeper, Va.

Plans and specifications will be on file at the Clerk's Office, Culpeper, Va., after May 1, 1908, for building a three-span steel bridge at Rapidan, Va. Abutments and piers of concrete. Bids must be filed in Clerk's Office of Culpeper, Va., on or before May 14, 1908.

W. E. COONS,
Clerk of Circuit Court.
April 20, 1908. 18-2t

OFFICE CONSTRUCTING QUARTERMASTER, U. S. A., 263 Summer Street, Boston, Mass., April 25, 1908. Sealed proposals, in triplicate, will be received at this office until 10 o'clock a. m., June 1, 1908, and then opened, for the construction of a wharf at Fort Standish, Lovell's Island, Boston Harbor, Mass. Plans can be seen and specifications, blank forms and all information obtained at this office. United States reserves the right to reject any or all proposals. Envelopes should be endorsed "Proposals for Wharf, Fort Standish, Mass.", and addressed to Captain IRA L. FREDENDALL, Constructing Quartermaster. 18-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 25, 1908.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 3d day of June, 1908, and then opened, for the extension, remodeling, etc. (except elevator and lifts) of the United States Post-Office and Court House at Detroit, Michigan, in accordance with the drawings and specification, copies of which may be had at the office of the Custodian at Detroit, Michigan, or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 18-2t

Situations Wanted

Mechanical and Electrical Engineers.

MECHANICAL ENGINEER desires position through summer vacation; over two years' experience as mechanical and structural draftsman on excavating and hoisting machinery, now instructor in drawing in a leading university. Will also make permanent engagement. Address "L. B. 18," Engineering News, New York. 18-3t

Civil Engineers.

CIVIL ENGINEER and map draftsman, 16 years' experience, largely on sewer work, municipal engineering and railroad work. Chief of party on surveys. Good letterer and map draftsman. Samples of same submitted. Married man, desiring steady position more than large salary. State salary offered and permanency of work. Address BOX 59, 940 East 165th St., New York. 18-3t

CIVIL ENGINEER, technical graduate, six years' varied experience; field and office work, water-works, steel erection, reinforced concrete construction; three years assistant engineer on important industrial plant construction; would like work along similar lines or on concrete construction. Address "J. G.," 1359 Mass. Ave., S. E., Washington, D. C. 18-4t

RESIDENT ENGINEER, manager or overseer, 15 years' experience, land, city and railroad surveys and works; speaks Spanish, Portuguese, Italian, French; good organizer; steady worker. Address "G. B. 18," Engineering News, New York. 18-2t

CIVIL ENGINEER desires field work in the West. Seven years' experience in private, highway, trolley and geodetic surveying and trolley construction. Address "H. B. 18," Engineering News, New York. 18-4t

Surveyors.

RODMAN, experienced, age 21, desires position, can give references. Address "E. A. 18," Engineering News, New York. 18-1t

Draftsmen.

WANTED by lady, position as draftsman in engineer's office; references furnished. Salary moderate. Address "I. B. 18," Engineering News, New York. 18-1t

Superintendents, Misc., etc.

REINFORCED CONCRETE ENGINEER open for engagement; arch design specialty; sample of work on application; technical graduate; references; married. Address "K. A. 17," Engineering News, New York. 18-1t

YOUNG MAN (22), four years' experience on surveys, railroad and bridge construction, desires position on engineering work; good references. Address "E. L. B.," 82 Hanover St., Providence, R. I. 18-1t

Situations Open

WANTED—Designer and estimator; an engineer of wide experience in reinforced concrete buildings. Address "K. B. 18," Engineering News, New York. 18-1t

STRUCTURAL DRAFTSMAN WANTED—College graduate. State age, experience and salary wanted. Syracuse Bridge Co., Syracuse, N. Y. 18-1t

WANTED, in N. Y. City, for 3 or 4 weeks, structural steel draftsman experienced in freight shed work. State experience, references, etc. Address "O. B. 18," Engineering News, New York. 18-2t

WANTED—Competent and experienced man to superintend the manufacture of fire brick in eastern part of Pennsylvania. Address "P. B. 18," Engineering News, New York. 18-4t

Miscellaneous Wants

Italian Laborers Supplied

FREE OF CHARGE

for all kinds of construction work. Experienced on Railroads, Sewerage, Reservoirs, Concrete Bridges, Foundations, Pipe Lines, etc. Call, write or phone to P. LENTO, Labor Agency, Haskell, N. J.
N. Y. & N. J. Tel., 3 W Pompton.
18-1t. Local Tel., 46 f 4 Pompton.

Reinforced Concrete Company

of well-established reputation, located in New York City, desires to increase its working capital $10,000.00 to $15,000.00 by the addition of an experienced man with capital. Address "D. A. 18," Engineering News, New York. 18-4t

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Five Ton Asphalt Roller

State where located, condition, make and price. Address,

J. L. DODGE,
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JAW CRUSHER

with manganese jaws to crush rejections from gyratory crusher. Must be in A1 condition and guaranteed to produce 10 tons per hour of ¾" to dust from very hard trap rock. Address "M. B. 18," Engineering News, New York. 18-1t

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Paving Blocks for Sale Cheap

as follows:
Sq. Blocks, 6 ins. square.....$44.00 per M.
Paving Blocks, 6 ins. high; 4 ins. wide; 10 ins. long .....$60.00 per M.
Paving Blocks, 8 ins. high; 4 ins. wide; 12 ins. long .....$75.00 per M.
We furnish samples on request.
DI LAURA GRANITE QUARRY CO.,
Haskell, N. J. 18-1t

FOR SALE.

High Crane Steam Shovels

45 ton, 1½ yd. Vulcan "Class F" No. 1254; new 1907. Will give clear lift 18' above rail.

35 ton, 1¼ yd. Vulcan "Little Giant Special" No. 1129; on traction wheels; new 1907. Will give clear lift 16' above ground.

These shovels have seen but three or four months' light service and are practically new. Can furnish photographs and detailed specifications. Location near York, Pa.

Have at same place number standard and 36" gage Locomotives, 4 yd. Western Dump Cars, Wheel Scrapers, Western 36" gage Spreader Car, Concrete Mixers, Wheelbarrows, picks, shovels, etc. Send for printed circular No. 34.

JOHN B. WATSON
Drexel Building, Philadelphia, Pa.
18-1t

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